JVC

SERVICE MANUAL

COLOR TELEVISION

AV-27530/SC

BASIC CHASSIS
FE5

TABLE OF CONTENTS

No.YA050B
2005/11

SPECIFICATION

Items		Contents
Dimensions (W × H × D)		65.4 cm × 59.3 cm × 49.4 cm (25-3/4" × 23-3/8" × 19-1/2")
Mass		31.1 kg (68.5 lbs)
TV RF System		CCIR (M)
Color System		NTSC
Sound System		BTSC (Multi Channel Sound)
Teletext System		Closed Caption (T1 - T4 / CC1 - CC4)
TV Receiving Channels and Frequency	VHF low VHF high UHF CATV	02ch - 06ch: 54 MHz - 88 MHz 07ch - 13ch: 174 MHz - 216 MHz 14ch - 69ch: 470 MHz - 806 MHz 54MHz - 804 MHz Low Band: 02 - 06 High Band: 07 - 13 Mid Band: 14 - 22 Super Band: 23 - 36 Hyper Band: 37 - 64 Ultra Band: 65 - 94, 100 - 135 Sub Mid Band: 01, 96 - 99
TV / CATV Total Channel		181 Channels [Reception of channel A-5 ("95" of the TV set's on-screen CABLE channel) is recommended for your TV set.]
Intermediate Frequency	Video IF Sound IF	45.75 MHz 41.25 MHz (4.5 MHz)
Color Sub Carrier		3.58 MHz
Power Input		AC120 V, 60 Hz
Power Consumption		105 W
Picture Tube (Visible size)		68 cm (27") Measured diagonally (H: 55.4 cm × V: 41.8 cm)
High Voltage		30.0 kV ±1.3 kV [at Zero beam current]
Speaker		5 cm × 9 cm (2" × 3-1/2"), Oval type × 2
Audio Power Output		1.2 W + 1.2 W
Antenna Terminal (VHF / UHF)		F-type connector, 75 Ω unbalanced
Video / Audio input [Input-1/2/3]	Component Video [Input-2] S-video [Input-1] Video Audio	RCA pin jack × 3 Y : 1V(p-p), 75 Ω, negative sync Pb/Pr : 0.7 V(p-p), 75 Ω Mini DIN 4-pin connector × 1 Y : 1 V(p-p), 75 Ω, negative sync C : 0.286 V(p-p)(burst signal), 75 Ω 1 V(p-p), 75 Ω, negative sync, RCA pin jack × 2 500 mV(rms)(-4dBs), high impedance, RCA pin jack × 6
Audio Output (Fix)		500 mV(rms)(-4dBs), low Impedance, (400 kHz when modulated 100 %), RCA pin jack × 2
Remote Control Unit		RM-C203 (Lithium cell battery × 1)

Design & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFETY PRECAUTIONS

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual**. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Use isolation transformer when hot chassis.**
The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.

(5) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.

(6) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).

(7) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

(8) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

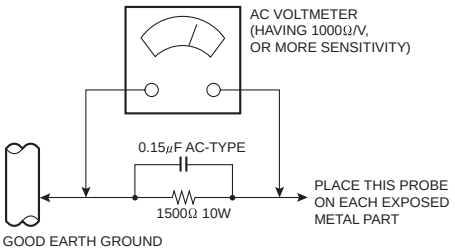
(9) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(10) **Isolation Check (Safety for Electrical Shock Hazard)**
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

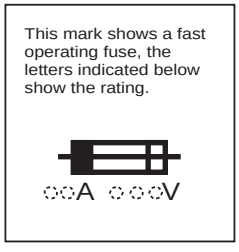
a) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

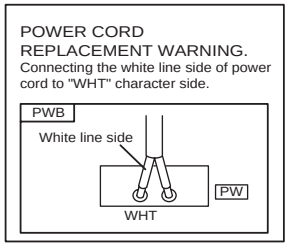
b) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000Ω per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



(11) **High voltage hold down circuit check.**
After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.See item **"How to check the high voltage hold down circuit"**.





SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

VIDEO STATUS

Expression of a favorite screen can be chosen by the VIDEO STATUS function.

COMPONENT INPUT

Since the component signal input terminal is equipped, it reappears direct without deteriorating the signal from DVD.

V-CHIP

Since the V-CHIP is built in, it can choose, view and listen to a healthy program.

MTS STEREO

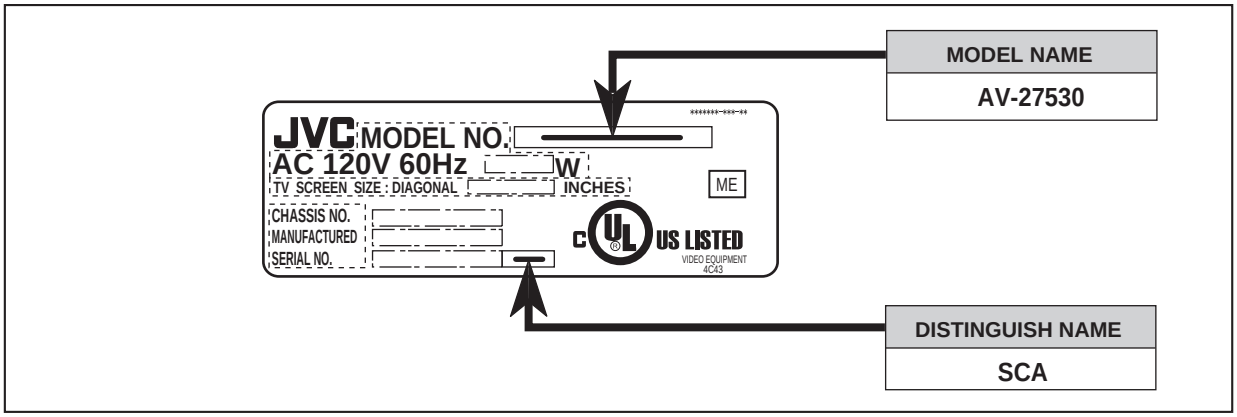
The voice multiplex function of the MTS system is built in. (MTS = Multi channel Television Sound system)

RETURN PLUS

You program a specific channel to return to while scanning through the channels using the CH+ and CH - keys.

2.2 HOW TO IDENTIFY MODELS

How to recognize from the appearance of the model concerned is written below. Please distinguish from several contents currently printed on the rating label



2.3 TECHNICAL INFORMATION

2.3.1 MAIN MI-COM (CPU) PIN FUNCTION

Pin No.	Pin name	I/O	Function	Pin No.	Pin name	I/O	Function
1	A_MUTE	O	Audio muting [Muting : H]	29	YC_GND	-	GND
2	AFT1	I	AFT voltage for tuner (Tuning frequency control)	30	V1_IN	I	Not used
3	KEY	I	Key scan for front control [No signal : H]	31	ABCL	I	Current for automatic beam (brightness)/contrast limit
4	uP_DVss	-	GND	32	MONITOR_OUT	O	Not used
5	Reset	I	CPU reset	33	BLACK_DET	-	Black level detection filter
6	8MHz_OUT	O	CPU system clock : 8MHz oscillation	34	SVM_OUT	O	Y signal for velocity scan modulation
7	8MHz_IN	I	CPU system clock : 8MHz oscillation	35	APL_FIL	-	Average picture level filter
8	TEST	-	GND	36	APC_FIL	-	Automatic phase control filter
9	uP_DVDD	-	5V	37	fsc_OUT	O	Color sub carrier (3.58MHz) for 3-line digital comb filter [IC5201]
10	AGC_MUTE	O	AGC muting for tuner (when channel select) [Muting : H]	38	YC_Vcc	-	5V (for video process circuit)
11	uP_VVSS	-	GND	39	R_OUT	O	R signal
12	TV_HGND	-	GND	40	G_OUT	O	G signal
13	FBP_SCP	I	Flyback pulse (H. pulse)	41	B_OUT	O	B signal
14	HOUT	O	H. drive (oscillation)	42	RGB_Vcc	-	9V (for RGB process circuit)
15	H_Vcc	-	9V (for H. oscillation start)	43	IK_IN	I	Not used
16	HAFC_1	-	H. AFC filter	44	TV_DGND	-	GND
17	Vsaw	-	V. saw filter	45	uP_AGND	-	GND
18	VOUT	O	V. drive	46	uP_AVdd	-	5V
19	EW_OUT	O	Parabola waveform (for sidepin correection)	47	MAIN_POWER	O	Power on/off switching control [Powen on : L]
20	X-RAY	I	X-ray detection (for protection) [Detection : H]	48	HAZARD	I	Not used
21	Ys	I	Not used	49	SDAO	I/O	Data for Inter IC control bus (for various devices)
22	Cb_IN	I	Cb (external) signal	50	SCLO	O	Clock for Inter IC control bus (for various devices)
23	Y_IN	I	Y (external) signal	51	SDA1	I/O	Data for Inter IC control bus (for main memory)
24	Cr_IN	I	Cr (external) signal	52	AGC_ADJUST	I	AGC adjustment
25	TV_DVcc	-	3.3V	53	SCL1	O	Clock for Inter IC control bus (for main memory)
26	V3IN/CIN	I	Chroma signal (for YC separation output)	54	LED	O	POWER / ON TIMER LED Indication [lighting : L]
27	EHT_IN	I	Not used	55	REMOCON	I	Remote control sensor input [No input : H]
28	V2_IN/Y_IN	I	Y signal (for YC separation output)	56	COMPULINK	I	Not used

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE REAR COVER

(1) Disconnect the power plug.
(2) Remove the 7 screws **[A]**.
(3) Remove the 4 screws **[B]**.
(4) Withdraw the REAR COVER backward.

3.1.2 REMOVING THE MAIN PWB

• Remove the REAR COVER.
(1) Raise the MAIN PWB, and remove the PWB STOPPER from the cabinet.
(2) Withdraw the MAIN PWB backward.
(If necessary, remove the wire clamp, connectors etc.)

3.1.3 REMOVING THE SPEAKER

• Remove the REAR COVER.
(1) Remove the 2 screws **[C]**.
(2) Remove the SPEAKER.
(3) Follow the same steps when removing the other hand SPEAKER.

NOTE :

When remove the 2 screws **[C]** of the SPEAKER, remove the lower side screw first, and then remove the upper one.

3.1.4 CHECKING THE MAIN PWB

To check the PW Board from back side.
(1) Pull out the MAIN PWB (refer to REMOVING THE MAIN PWB).
(2) Erect the MAIN PWB vertically with the HVT side facing up so that you can easily check the back side of the PW board.

CAUTION :

- When erecting the MAIN PWB, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- **When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PWB.**

3.1.5 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

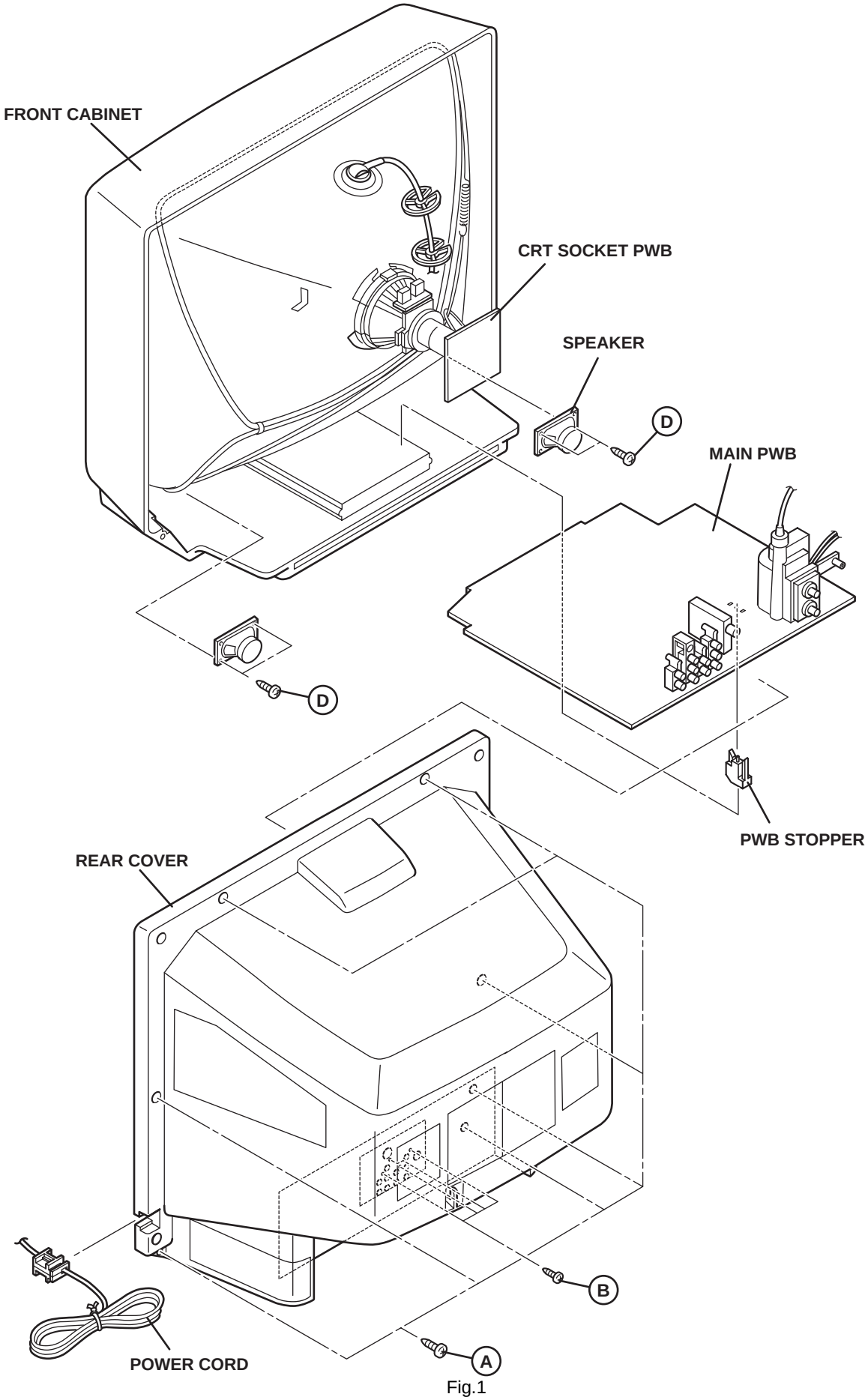

FRONT CABINET
CRT SOCKET PWB
SPEAKER
D
MAIN PWB
D
PWB STOPPER
REAR COVER
B
POWER CORD
A

Fig.1

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off
Switch off the power and disconnect the power plug.

2. Replace the memory IC
Be sure to use a memory IC written with the initial setting data.

3. Power on
Connect the power cord to the wall outlet and switch on the power.

4. Receiving channel setting
Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

5. User settings
Check the user setting items according to the "SETTINGS OF FACTORY SHIPMENT" table.
Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

6. SERVICE MODE setting
Verify what to set in the SERVICE MODE, and set whatever is necessary(Fig.1) .
Refer to the SERVICE ADJUSTMENT for setting.

3.2.2 SERVICE MODE SETTING ITEMS

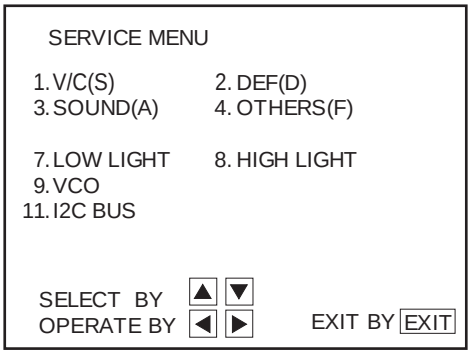


Fig.1

Setting items	Settings	Item No.
1. V/C(S) (Video setting)	Adjust	S01~S21
2. DEF(D) (Deflection setting)	Adjust	D01~D12
3. SOUND(A) (Audio setting)	Adjust	A01~A09
4. OTHERS [Do not adjust] (Factory setting)	Fixed	F01~F09
7. LOW LIGHT (White balance setting)	Adjust	---
8. HIGH LIGHT (White balance setting)	Adjust	---
9. VCO (VCO setting)	Adjust	---
11. I2C BUS [Do not adjust] (I^2C BUS setting)	Fixed	---

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	CH-02
VOLUME	10

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
INPUT	TV
CHANNEL	CH-02
VOLUME	10
MUTING	OFF
DISPLAY	OFF
SLEEP TIMER	OFF
VIDEO STATUS	DYNAMIC

3.2.3.3 REMOTE CONTROL MENU OPERATION

(1) PICTURE ADJUST

Setting item	Setting position
TINT	0
COLOR	0
PICTURE	+8
BRIGHT	0
DETAIL	+8
NOISE MUTING	ON

(2) SOUND ADJUST

Setting item	Setting position
BASS	0
TREBLE	0
BALANCE	0
MTS	STEREO

(3) CLOCK / TIMERS

Setting item	Setting position
SET CLOCK	OFF
ON / OFF TIMER	OFF

(4) INITIAL SETUP

Setting item	Setting position
LANGUAGE	ENG.
CLOSED CAPTION	OFF(CC1/T1)
FRONT PANEL LOCK	OFF
AUTO SHUT OFF	OFF
V-CHIP	OFF

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

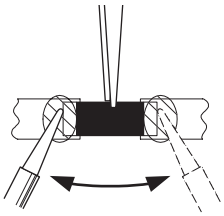
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

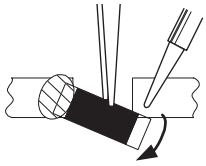
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



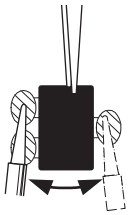
(2) Shift with the tweezers and remove the chip part.



[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.

(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



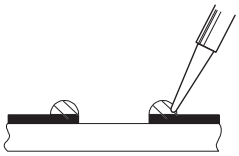
NOTE :

After removing the part, remove remaining solder from the pattern.

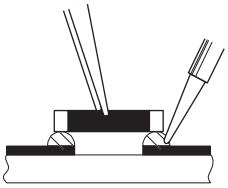
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

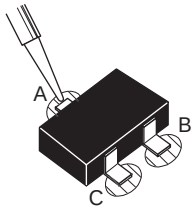


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

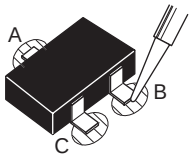


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) **There are 2 ways of adjusting this TV : One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.**
(2) **The adjustment using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**
(3) Make sure that connection is correctly made AC to AC power source.
(4) Turn on the power of the TV and measuring instruments for warming up for at least 30 minutes before starting adjustments.
(5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
(6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Item	Preset value
VIDEO STATUS	STANDARD
PICTURE adjustment	All 00
SOUND adjustment	All 00

4.3 MEASURING INSTRUMENT AND FIXTURES

- DC voltmeter (or digital voltmeter)
- Oscilloscope
- Signal generator (Pattern generator) [NTSC]
- TV audio multiplex signal generator
- Remote control unit

4.4 ADJUSTMENT ITEMS

■CHECK ITEM
- B1 VOLTAGE check
- HIGH VOLTAGE HOLD DOWN check

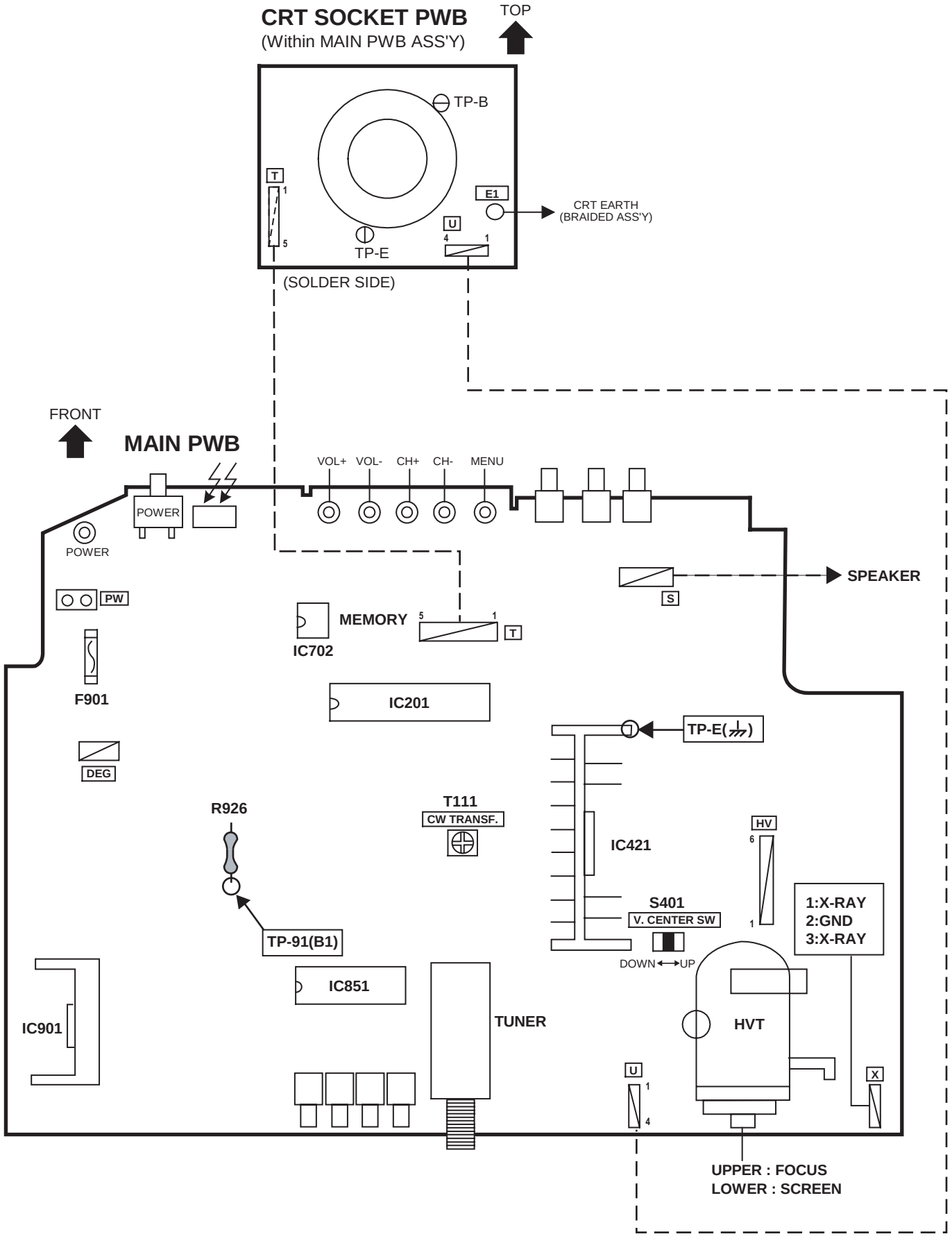
■FOCUS
- FOCUS adjustment

■DEFLECTION CIRCUIT
- V. SIZE / V. POSITION adjustment
- H. POSITION / H. SIZE / SIDE PIN adjustment

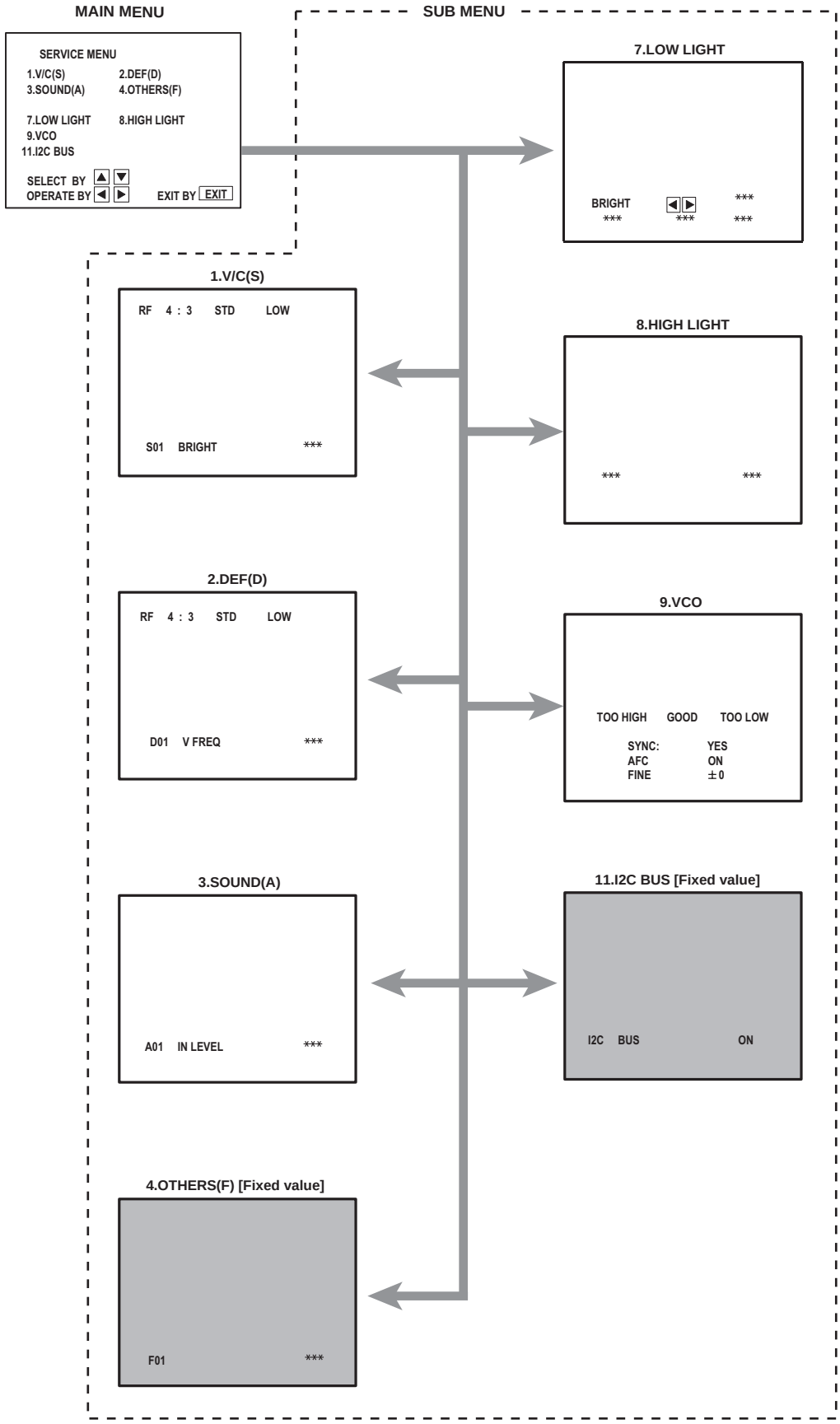
■VIDEO CIRCUIT
- WHITE BALANCE(High Light & Low Light) adjustment
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment

■MTS CIRCUIT
- MTS INPUT LEVEL adjustment
- MTS SEPARATION adjustment

4.5 ADJUSTMENT LOCATIONS



4.6 BASIC OPERATION OF SERVICE MODE



4.6.1 TOOL OF SERVICE MODE OPERATION

Operate the SERVICE MODE with the REMOTE CONTROL UNIT.

4.6.2 SERVICE MODE ITEMS

In general, basic setting (adjustments) items or verifications are performed in the SERVICE MODE.

1. V/C (S)	This sets the setting values of the VIDEO circuit.
2. DEF (D)	This sets the setting values of the DEFLECTION circuit.
3. SOUND (A)	This sets the setting values of the AUDIO circuit.
4. OTHERS (F)	This sets the setting values of the factory settings. **[Do not adjust]**
7. LOW LIGHT	This sets the setting values of the WHITE BALANCE (LOW LIGHT) control circuit.
8. HIGH LIGHT	This sets the setting values of the WHITE BALANCE (HIGH LIGHT) control circuit.
9. VCO	This sets the setting values of the VCO control circuit.
11. I2C BUS	This sets the setting values of the I^2C BUS control circuit. **[Do not adjust]**

4.6.3 HOW TO ENTER THE SERVICE MODE

(1) Set to 0 minutes using the **[SLEEP TIMER]** key.
(2) Press the **[VIDEO STATUS]** key and **[DISPLAY]** key simultaneously while "**0 MIN**" is displayed, then enter the SERVICE MODE.

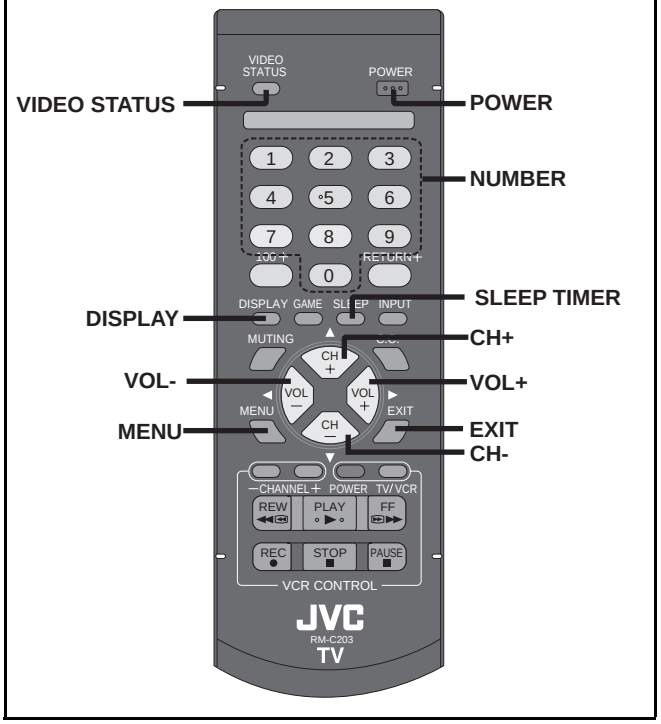
4.6.4 HOW TO STORE OF SETTING VALUE

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys

4.6.5 HOW TO EXIT THE SERVICE MODE

Press the **[EXIT]** key to exit the SERVICE MODE.

SERVICE MODE SELECT KEY



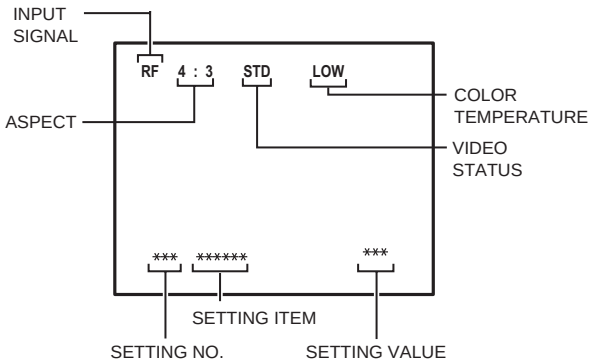
4.6.6 SERVICE MODE SETTING

1. V/C, 2. DEF

- Press **[CH+]** / **[CH-]** key
  For scrolling up/down the adjustment item.
- Press **[VOL+]** / **[VOL-]** key
  For scrolling up/down the data values.

NOTE:

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys.



(1) INPUT SIGNAL

RF : Antenna input
COMP : External (Component) input
EXT : External (S / Composite) input

(2) ASPECT

4 : 3 : 4 : 3 screen mode

(3) VIDEO STATUS

STD : STANDARD
THEA : SPORTS

(4) COLOR TEMPERATURE

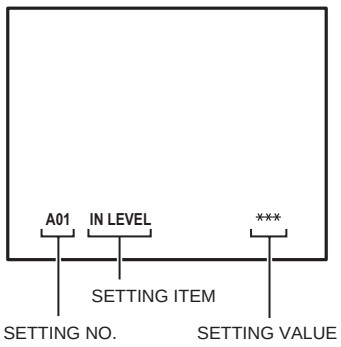
LOW : White balance low mode

3. SOUND (A)

- Press **[CH+]** / **[CH-]** key
  For scrolling up/down the adjustment item.
- Press **[VOL+]** / **[VOL-]** key
  For scrolling up/down the data values.

NOTE:

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys.

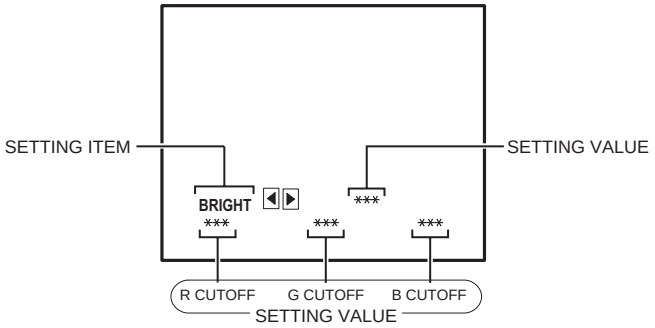


7. LOW LIGHT

The settings for WHITE BALANCE(LOW LIGHT) control circuit.

NOTE:

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys.

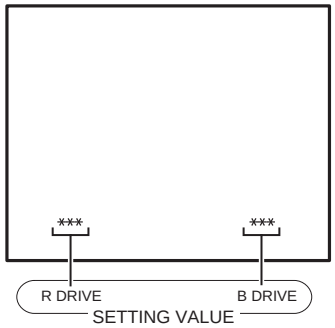


8. HIGH LIGHT

The settings for WHITE BALANCE(HIGH LIGHT) control circuit.

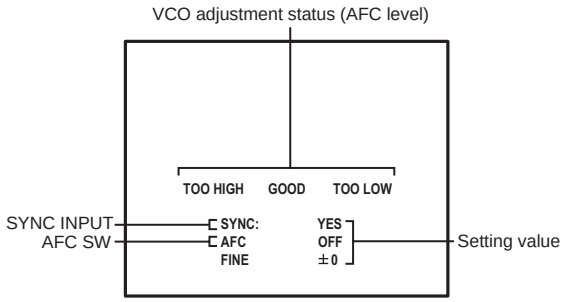
NOTE:

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys.



9. VCO

The setting for VCO control circuit.



4.7 INITIAL SETTING VALUE OF SERVICE MODE

(1) Adjustment of the service menu is made on the basis of the initial setting values. however, the new setting values which displays on the screen in its optimum condition may differ from the initial setting value.
(2) Do not change the initial setting values of the items not listed in "ADJUSTMENT PROCEDURE".
(3) "---" is impossible to adjust.

4.7.1 [1. V/C(S)]

No.	Setting item	Variable range	Initial setting value					
			RF		EXTERNAL (S / COMPOSITE)		EXTERNAL (COMPONENT)	
			STANDARD	SPORTS	STANDARD	SPORTS	STANDARD	SPORTS
S01	BRIGHT	000 - 127	064	---	---	---	---	---
S02	PICTURE	000 - 127	058	---	---	---	---	---
S03	COLOR	000 - 127	053	---	---	---	063	---
S04	TINT	000 - 127	053	---	---	---	065	---
S05	DETAIL	000 - 063	035	---	040	---	040	---
S06	BRIGHT +-	-032 - +032	---	±000	-001	---	-005	---
S07	PICT+-	-032 - +032	---	-015	+001	---	±000	---
S08	COLOR +-	-032 - +032	---	-003	-001	---	---	---
S09	TINT+-	-032 - +032	---	-006	+016	---	---	---
S10	DETAIL+-	-032 - +032	---	+003	---	---	---	---

No.	Setting item	Variable range	Initial setting value			
			EXTERNAL (S / COMPOSITE)		EXTERNAL (COMPONENT)	
			STANDARD	SPORTS	STANDARD	SPORTS
S11	R CUT OFF	000 - 255	030	---	---	---
S12	G CUT OFF	000 - 255	030	---	---	---
S13	B CUT OFF	000 - 255	030	---	---	---
S14	R DRIVE	000 - 127	064	---	---	---
S15	B DRIVE	000 - 127	064	---	---	---
S16	R CUT +-	-128 - +127	---	±000	-005	---
S17	G CUT +-	-128 - +127	---	±000	+005	---
S18	B CUT +-	-128 - +127	---	±000	-005	---
S19	R DRV +-	-128 - +127	---	+007	+003	---
S20	B DRV +-	-128 - +127	---	-009	+003	---
S21	AGC ADJ	000 - 127	080	080	080	080

4.7.2 [2. DEF(D)]

No.	Setting item	Variable range	Initial setting value	
			RF	EXTERNAL (S / COMPOSITE)
D01	AFC GAIN	000 - 003	000	002
D02	H POSI	000 - 031	010	010
D03	V SIZE	000 - 125	040	040
D04	V S CORR	000 - 015	003	003
D05	V LIN	000 - 015	012	012
D06	H SIZE	000 - 063	032	032
D07	WVMT TOP	000 - 003	000	000
D08	WVMT BTM	000 - 003	000	000
D09	EWCR TOP	000 - 031	016	016
D10	EWCR BTM	000 - 031	016	016
D11	EW PARA	000 - 063	026	026
D12	BLANK SW	000 - 001	000	000

4.7.3 [3. SOUND(A)]

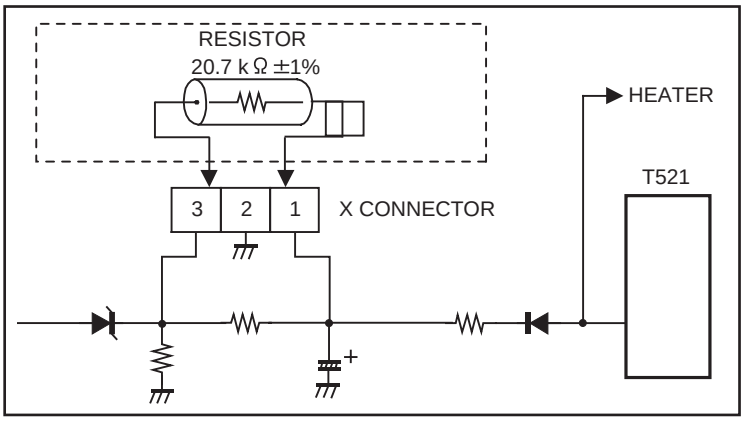
No.	Setting item	Variable range	Initial setting value
A01	IN LEVEL	000 - 063	017
A02	FH MON	000 - 001	000
A03	ST VCO	000 - 063	036
A04	PIL CAN	000 - 001	000
A05	FILTER	000 - 063	035
A06	LOW SEP	000 - 063	007
A07	HI SEP	000 - 063	018
A08	5FH MON	000 - 001	000
A09	SAP VCO	000 - 063	037

4.7.4 [4. OTHERS(F)] [Do not adjust : All fixed]

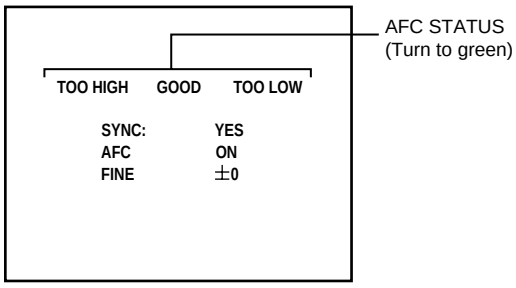
No.	Setting item	Variable range	Initial setting value
F01	(Not display)	000 - 255	028
F02	(Not display)	000 - 255	083
F03	(Not display)	000 - 063	042
F04	(Not display)	000 - 255	093
F05	(Not display)	000 - 063	011
F06	(Not display)	000 - 255	062
F07	(Not display)	000 - 255	003
F08	(Not display)	000 - 255	005
F09	(Not display)	000 - 001	001

4.8 ADJUSTMENT PROCEDURE

4.8.1 CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
B1 POWER SUPPLY	Signal generator DC voltmeter	R927 : TP-91 HEAT SINK (IC421) : TP-E [MAIN PWB]		(1) Receive the black and white signal. (color off) (2) Connect the DC voltmeter to the TP-E and TP-91 (R927). (3) Confirm that the voltage is DC134V (-2.5V / +2V).
HIGH VOLTAGE HOLD DOWN	Resistor (20.7kΩ, 1/4W)	X connector 1-pin : X-RAY2 3-pin : X-RAY1 [MAIN PWB]		• After repairing the high voltage hold down circuit. This circuit shall be checked to operate correctly. (1) Turn the power switch to on. (2) Refer to the figure, connect the resistor between **X connector** 1-pin and 3-pin. (3) Make sure that the screen picture disappeares. (4) Disconnect the power plug. (5) Remove the resistor. (6) Again connect the power plug. (7) Turn the power switch to on. (8) Make sure that the normal picture is displayed on the screen.
				

4.8.2 TUNER / IF CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
IF VCO	Remote control unit		[9.VCO] CW transf. (T111) [MAIN PWB]	• It must not adjust without inputting the RF signal. (1) Receive the any broadcast. (2) Select **9.VCO** from the SERVICE MODE. (3) Change the "**AFC**" to "**OFF**" and "**FINE**" to "**0**". (4) Confirm that the color change from "**TOO HIGH**" to "**TOO LOW**" by CW transf. on MAIN PWB, and check the "**SYNC**" is "**YES**". (5) Adjust CW transf. until "**GOOD**" letters turns green. And then confirm that the "**SYNC**" is "**YES**" again. Adjustment can be done in this statement. (6) It return the "**AFC**" to "**ON**". (7) Press the **[EXIT]** key to exit the **9.VCO**.
				

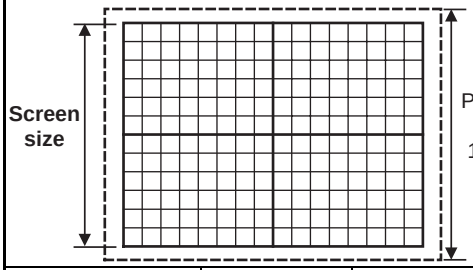
4.8.3 FOCUS

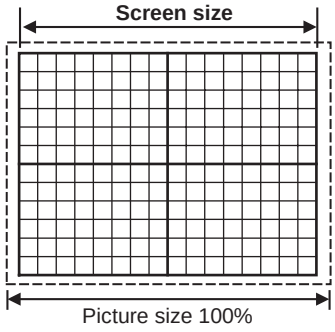
Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS	Signal generator		FOCUS VR [In HVT]	(1) Receive the crosshatch signal. (2) While watching at the screen, adjust the **FOCUS VR** to the vertical and horizontal lines will be thinnest and sharpest center horizontal line. (3) Make sure that the picture is in focus even when the screen gets darkened.

4.8.4 DEFLECTION CIRCUIT

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>V. SIZE /
V. POSITION</td><td>Signal generator

Remote control unit</td><td></td><td rowspan="2">[2.DEF (D)]
D03: V SIZE

V. CENTER SW
(S1401)
[MAIN PWB]</td><td rowspan="2">(1) Receive the crosshatch signal.
(2) Select 2.DEF(D) from the SERVICE MODE.
(3) Adjust V. CENTER SW to agree the vertical center with display center.
(4) Select < D03 > (V SIZE).
(5) Adjust < D03 > to the vertical screen size become setting value is 90%.</td></tr>
<tr><td colspan="3"> 
</td></tr>
<tr><td>H. SIZE /
H. POSITION /
SIDE PIN</td><td>Signal generator

Remote control unit</td><td></td><td rowspan="2">[2.DEF (D)]
D02: H POSI
D06: H SIZE
D11: EW PARA
D09: EWCR TOP
D10: EWCR BTM</td><td rowspan="2">(1) Receive the crosshatch signal.
(2) Select 2.DEF(D) from the SERVICE MODE.
(3) Select < D02 > (H POSI).
(4) Adjust < D02 > to the left width and right width of the crosshatch screen becomes equal.
(5) Select < D06 > (H SIZE).
(6) Adjust < D06 > to the horizontal screen size become setting value is 90%.
(7) Select < D11 > (EW PARA).
(8) Adjust < D11 > to vertical line at both side to become straight.
(9) If it is necessary, readjust step 3 to 8.
NOTE:
If it is not straight at the vertical upper and bottom corner line, adjust the upper and bottom conrner pin by < D09 > (EWCR TOP) amd < D10 > (EWCR BTM).</td></tr>
<tr><td colspan="3"> 
</td></tr>
</table>

4.8.5 VIDEO CIRCUIT

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>WHITE BALANCE (LOW LIGHT)</td><td>Signal generator

Remote control unit</td><td></td><td>[1.V/C (S)]
S01: BRIGHT
S11: R CUTOFF
S12: G CUTOFF
S13: B CUTOFF

[7.LOW LIGHT]

SCREEN VR
[in HVT]</td><td>(1) Receive the all black signal.
(2) Select the 1.V/C (S) from the SERVICE MODE.
(3) Confirm the initial setting value of < S11 > (R CUTOFF), < S12 > (G CUTOFF), < S13 > (B CUTOFF) and < S01 > (BRIGHT).
(4) Return to the main menu in SERVICE MODE.
(5) Select the 7.LOW LIGHT from the SERVICE MODE.
(6) Display a single horizontal line by pressing the [1] key.
(7) Turn the SCREEN VR all the way to the left.
(8) Turn the SCREEN VR gradually to the right from the left until either one of the red, blue or green colors appears faintly.
(9) Adjust the two colors which did not appear until the single horizontal line that is displayed becomes white using the [4] to [9] keys.
(10) Turn the SCREEN VR until the single horizontal line is displayed faintly.
(11) Press the [2] key to cancel the single horizontal line mode.
(12) Return to the main menu in SERVICE MODE.
(13) Select the 1.V/C (S) from the SERVICE MODE.
(14) Adjust the BRIGHT level to become the black component shines white slightly by < S01 >.
(15) Confirm that whether the color ingredient of R, G, or B is visible to the black component, which shines white slightly.
(16) When the color ingredient can be seen, two colors other than a visible color are adjusted, and it is made to look white.
(17) Return the value of < S01 > to initial setting value.

• The [3] (EXIT) key is the cancel key for the WHITE BALANCE.</td></tr>
<tr><td colspan="3">REMOTE CONTROL UNIT

H.LINE ON ① H.LINE OFF ② EXIT ③
R CUTOFF▲ ④ G CUTOFF▲ ⑤ B CUTOFF▲ ⑥
R CUTOFF▼ ⑦ G CUTOFF▼ ⑧ B CUTOFF▼ ⑨</td><td colspan="2"></td></tr>
<tr><td>WHITE BALANCE (HIGH LIGHT)</td><td>Signal generator

Remote control unit</td><td></td><td>[1.V/C (S)]
S14: R DRIVE
S15: B DRIVE

[8.HIGH LIHGT]</td><td>(1) Receive the 100% all white signal.
(2) Select the 1.V/C (S) from the SERVICE MODE.
(3) Set the initial setting value of < S14 > (R DRIVE) and < S15 > (B DRIVE).
(4) Return to the main menu in SERVICE MODE.
(5) Select the 8.HIGH LIGHT from the SERVICE MODE.
(6) Adjust the screen until it becomes white using the [4], [6], [7] and [9] keys.

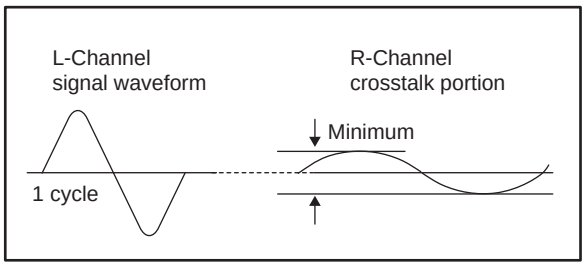
• The [3] (EXIT) key is the cancel key for the WHITE BALANCE.</td></tr>
<tr><td colspan="3">REMOTE CONTROL UNIT

EXIT
① ② ③
R DRIVE▲ B DRIVE▲
④ ⑤ ⑥
R DRIVE▼ B DRIVE▼
⑦ ⑧ ⑨</td><td colspan="2"></td></tr>
<tr><td>SUB BRIGHT</td><td>Remote control unit</td><td></td><td>[1.V/C (S)]
S01: BRIGHT</td><td>(1) Receive any broadcast.
(2) Select the 1.V/C (S) from the SERVICE MODE.
(3) Select < S01 > (BRIGHT).
(4) Set the initial setting value of < S01 >.
(5) If the brightness is not the best with the initial setting value, make fine adjustment of < S01 > until you get the optimum brightness.</td></tr>
</table>

Item	Measuring instrument	Test point	Adjustment part	Description
SUB CONTRAST	Remote control unit		[1.V/C (S)] S02: PICTURE	(1) Receive any broadcast. (2) Select the **1.V/C (S)** from the SERVICE MODE. (3) Select **< S02 >** (PICTURE). (4) Set the initial setting value of **< S02 >**. (5) If the contrast is not the best with the initial setting value, make fine adjustment of the **< S02 >** until you get the optimum contrast.

4.8.6 MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL	Remote control unit		[3.SOUND (A)] A01: IN LEVEL	(1) Receive any broadcast. (2) Select the **3.SOUND (A)** from the SERVICE MODE. (3) Select the **< A01 >** (IN LEVEL). (4) Set the initial setting value of **< A01 >**.
MTS SEPARATION	TV audio multiplex signal generator Oscilloscope Remote control unit	R OUT L OUT [AUDIO OUT]	[3.SOUND (A)] A06: LOW SEP. A07: HI SEP.	(1) Input the stereo L signal (300 Hz) from the TV audio multiplex signal generator to the antenna terminal. (2) Connect an oscilloscope to R OUT pin of the AUDIO OUT, and display one cycle portion of the 300 Hz signal. (3) Select the **3.SOUND (A)** from the SERVICE MODE. (4) Select the **< A06 >** (LOW SEP.). (5) Set the initial setting value of **< A06 >**. (6) Adjust the **< A06 >** so that the stroke element of the 300Hz signal will become minimum. (7) Change the connection of the oscilloscope to L OUT pin of the AUDIO OUT, and enlarge the voltage axis. (8) Change the signal to 3 kHz, and similarly adjust **< A07 >** (HI SEP.).



SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YA050B)

Printed in Japan
VPT

JVC

SCHEMATIC DIAGRAMS

COLOR TELEVISION

AV-27530/SC

CD-ROM No.SML200511

BASIC CHASSIS
FE5

No.YA050B
2005/11

AV-27530/SC

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	: DC 20kΩ/V
(4)Oscilloscope sweeping time	: H ⇒ 20μs / div
	: V ⇒ 5ms / div
	: Othters ⇒ Sweeping time is specified
(5)Voltage values	: All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	: [Ω]
K	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [μF]

● Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]: Capacitance value [μF]/withstand voltage[V]

● Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

No unit	: [μH]
Others	: As specified

(4)Power Supply

: B1

: B2 (12V)


: 9V

: 5V

∗ Respective voltage values are indicated

(5)Test point

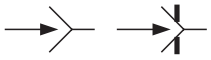

: Test point

: Only test point display

(6)Connecting method


: Connector

: Wrapping or soldering


: Receptacle

(7)Ground symbol


: LIVE side ground


: ISOLATED(NEUTRAL) side ground


: EARTH ground


: DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

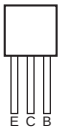
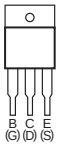
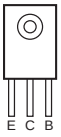
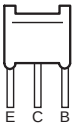
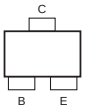
CONTENTS

USING P.W. BOARD

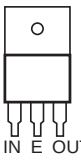
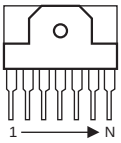
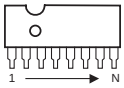
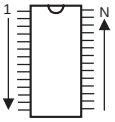
PWB ASS'Y name	AV-27530/SC
MAIN P.W. BOARD	SFE-1039A-M2
CRT SOCKET P.W. BOARD	SFE-3001A-M2

SEMICONDUCTOR SHAPES

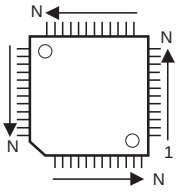
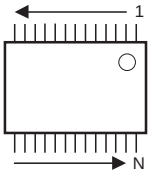
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

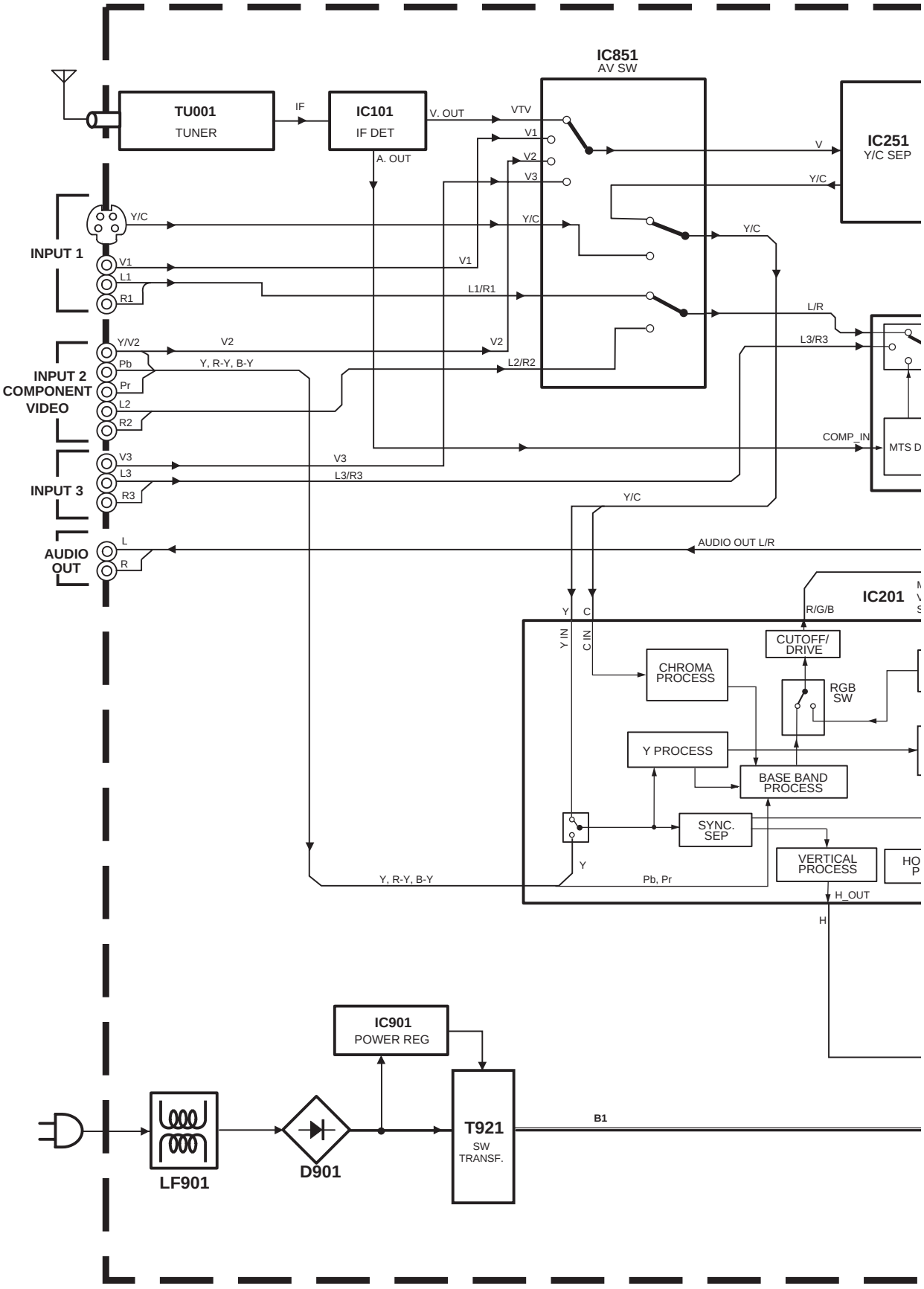
IC

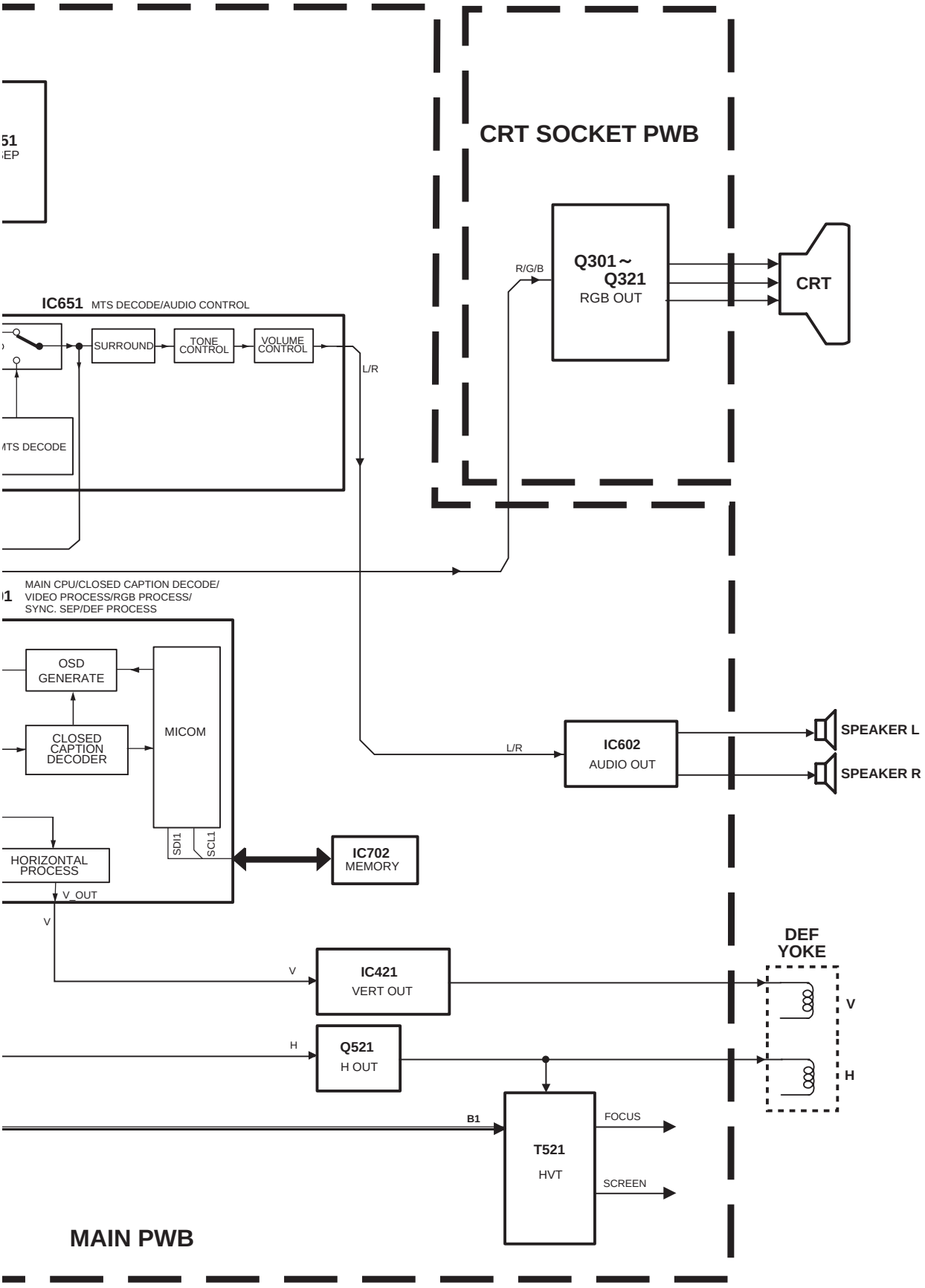
BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

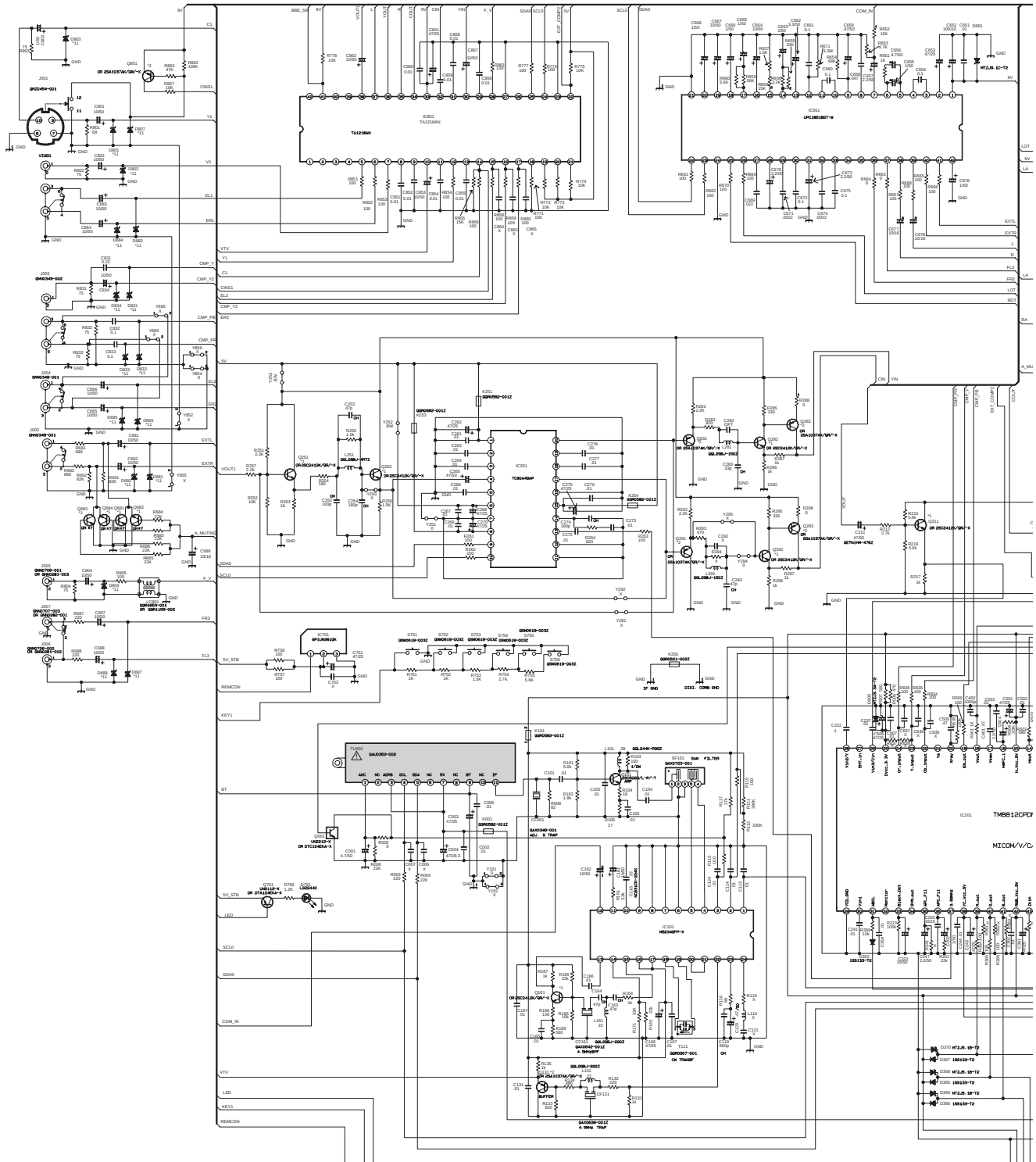
BLOCK DIAGRAM




CRT SOCKET PWB
Q301～
Q321
RGB OUT
R/G/B
CRT
IC651 MTS DECODE/AUDIO CONTROL
SURROUND
TONE CONTROL
VOLUME CONTROL
L/R
MTS DECODE
MAIN CPU/CLOSED CAPTION DECODE/
VIDEO PROCESS/RGB PROCESS/
SYNC. SEP/DEF PROCESS
OSD GENERATE
CLOSED CAPTION DECODER
MICOM
SDI1
SCL1
HORIZONTAL PROCESS
V_OUT
V
IC702
MEMORY
L/R
IC602
AUDIO OUT
SPEAKER L
SPEAKER R
DEF YOKE
IC421
VERT OUT
V
H
Q521
H OUT
B1
T521
HVT
FOCUS
SCREEN
MAIN PWB

CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/2) SHEET1



MAIN PWB ASS'Y (1/2)
SFE-1039A-M2

IC101-22 (H) — 15 Vp-p

IC201-6 (0.2 μs) — 4 Vp-p

IC201-7 (0.2 μs) — 4 Vp-p

IC201-14 (H) — 5 Vp-p

IC201-18 (V) — 2 Vp-p

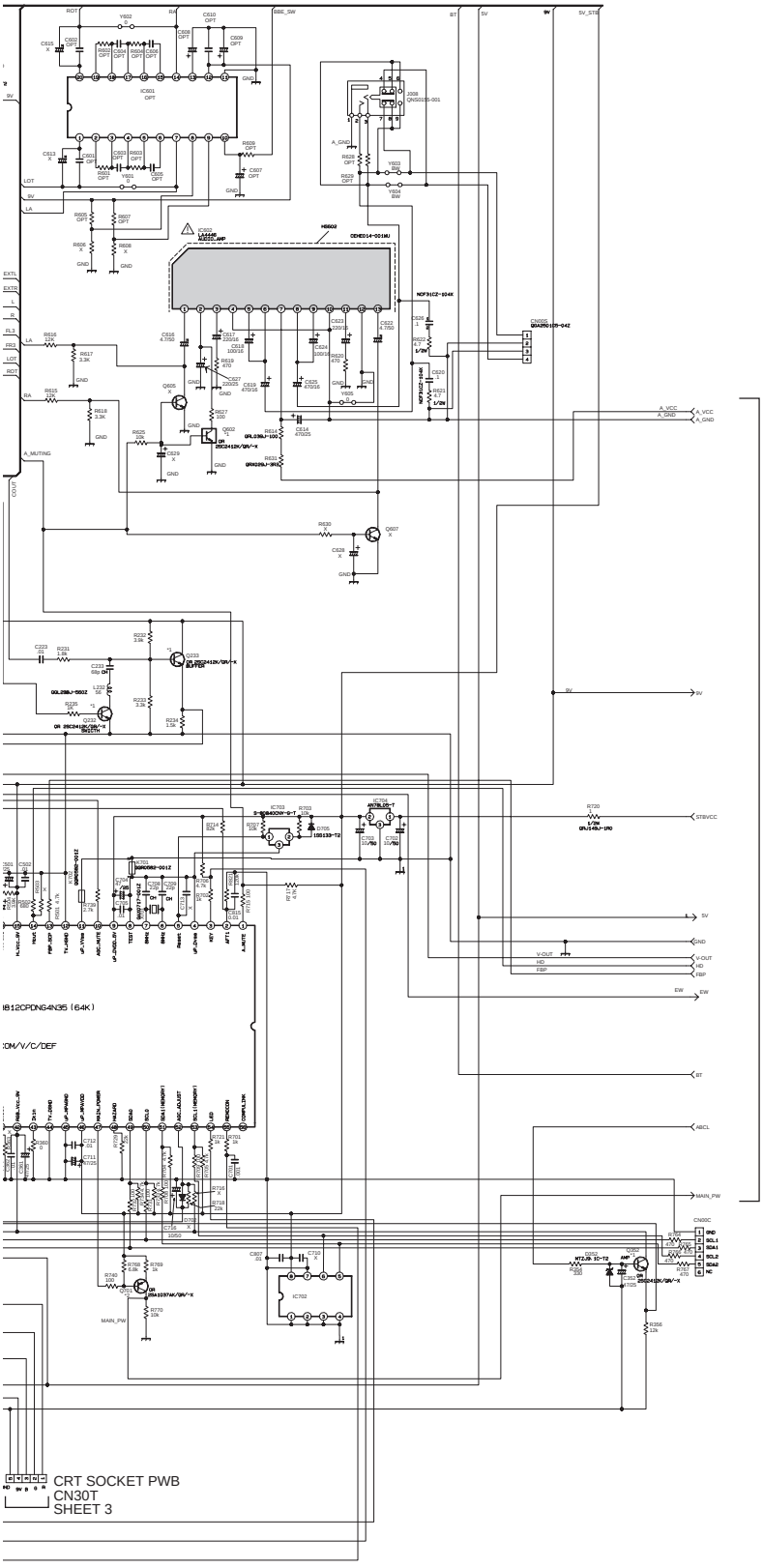
IC201-26 (H) — 0.4 Vp-p

IC201-28 (H) — 0.7 Vp-p

IC201-39 (H) — 3.5 Vp-p

IC201-40 (H) — 3 Vp-p

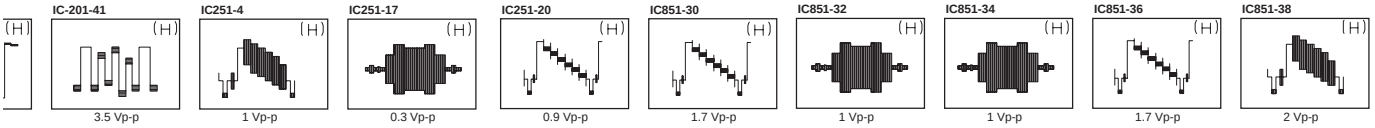
NOTE : Refer to the part list for the part number of IC702.



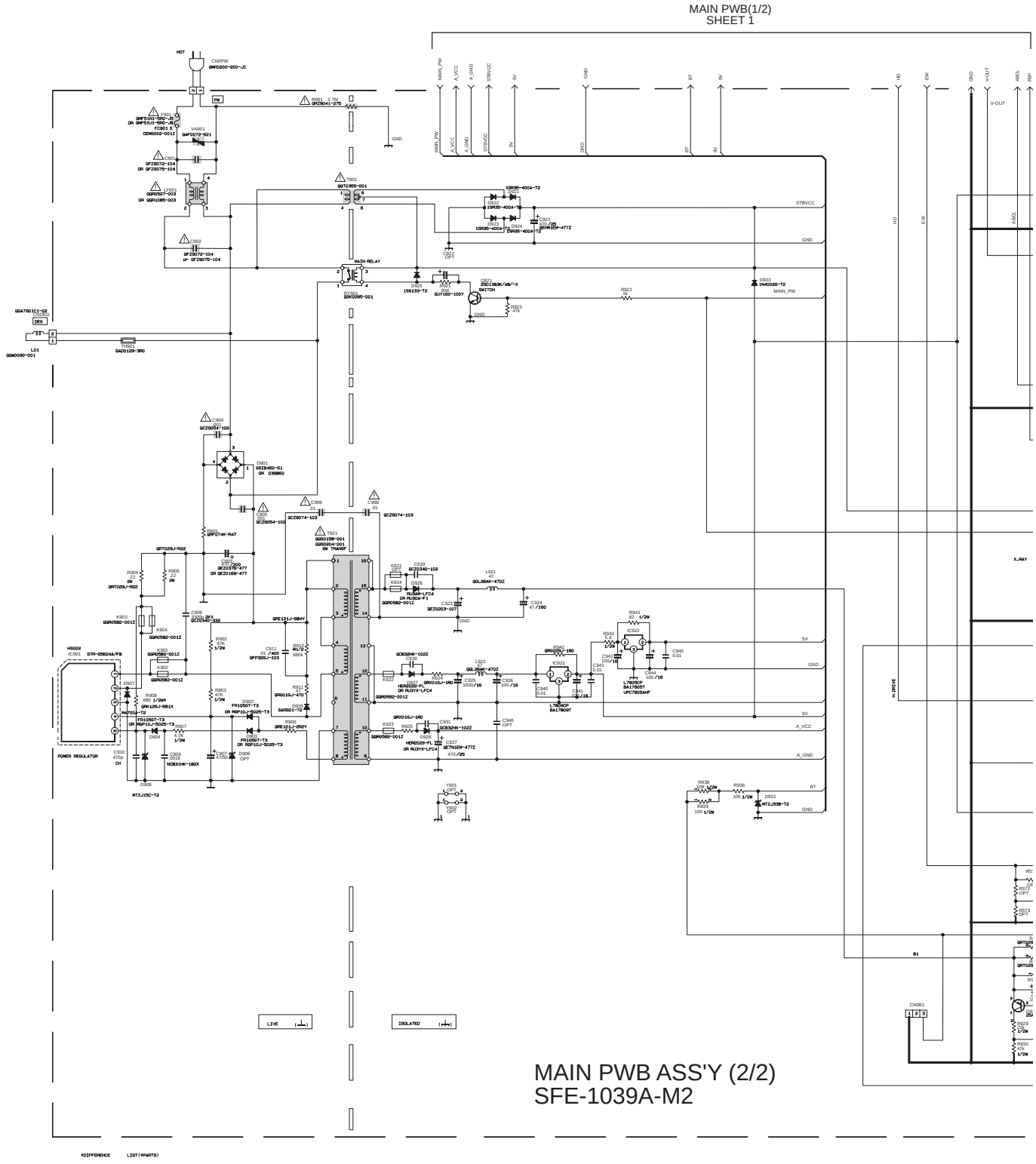
MODE PIN NO.	DC (V)
IC101	
1	2
2	4.1
3	1.8
4	1.4
5	1.4
6	0
7	0
8	0
9	0
10	2.7
11	2.2
12	4.7
13	2.1
14	3.5
15	2.1
16	8.8
17	8.8
18	4
19	4
20	4.8
21	4.8
22	1.5
23	3.3
24	1.3
IC201	
1	0
2	0.4
3	5.1
4	0
5	5.1
6	2.2
7	2
8	0
9	5.1
10	0
11	0
12	0
13	0.9
14	1.9
15	8.8
16	6.4
17	3.6
18	4.5
19	4.3
20	0
21	0
22	2.2
23	2.2
24	2.2
25	3.5
26	2.2
27	1
28	2.4
29	0
30	2.2
31	6.1
32	0
33	2.4
34	3.7
35	1.7
36	2.5
37	2.9
38	4.9
39	2.2
40	2.2
41	2.2
42	8.8
43	0
44	0
45	0
46	5.1
47	0.3
48	0
49	4.8
50	4.5
51	5.1
52	0
53	5.1
54	0
55	5
56	0
IC251	
1	5.1
2	1.4
3	3.2
4	2.5
5	1.9
6	2.1
7	0
8	5.2
9	5
10	4.9
11	0
12	0
13	2.6
14	0
15	5.2
16	0
17	2
18	3.2
19	1.9
20	2.5
IC602	
1	3.1
2	8.8
3	3.1
4	3.1
5	0
6	10.1
7	16.9
8	8.8
9	17.4
10	0
11	4
12	4.1
13	4

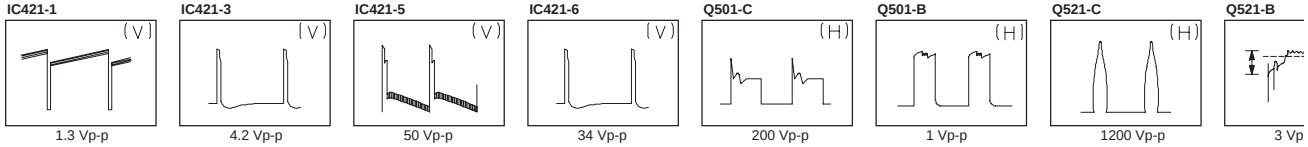
MODE PIN NO.	DC (V)
IC651	
1	11.6
2	5.7
3	5.3
4	5.8
5	5.4
6	5.4
7	4.6
8	7.6
9	2.7
10	4.6
11	5.2
12	4.9
13	6
14	5.2
15	1.4
16	5.8
17	4.8
18	4.9
19	0
20	4.9
21	0
22	5.3
23	5.3
24	0
25	5
26	3.3
27	5
28	5
29	4.6
30	4.6
31	4.6
32	4.6
33	4.6
34	4.6
35	4.6
36	4.6
37	4.6
38	4.6
39	4.6
40	4.6
41	4.6
42	4.5
IC702	
1	0
2	0
3	0
4	0
5	5.1
6	5.1
7	0
8	5.1
IC703	
1	0
2	5.1
3	0
IC704	
1	8.7
2	0
3	5.1
IC751	
1	5
2	5
3	0
IC851	
1	3.9
2	3.9
3	6.5
4	3.6
5	5.1
6	5.1
7	5.1
8	5.1
9	5.1
10	5.1
11	5.1
12	5.1
13	5.1
14	1.7
15	5.1
16	5.1
17	5.1
18	1.7
19	0
20	0.1
21	0
22	1
23	0
24	4.4
25	4.8
26	1.3
27	0
28	5.1
29	5.1
30	5.1
31	5.1
32	5.1
33	8.8
34	3.7
35	3.9
36	3.7
37	3.9
38	4.4
39	3.9
40	3.9
41	0.1
42	4.4
Q001	
E	0
C	2
B	0
Q101	
E	1.1
C	8.8
B	1.8

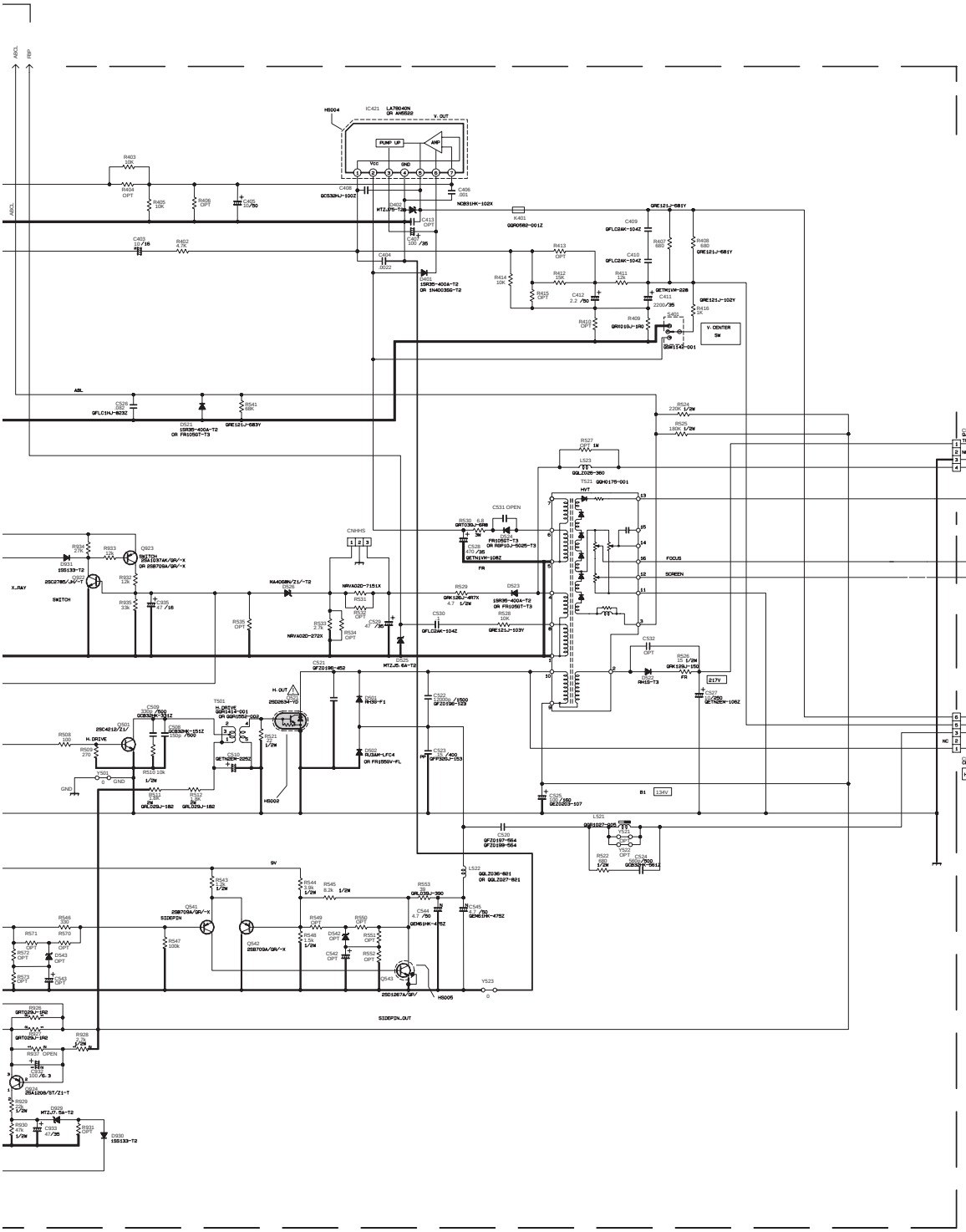
MODE PIN NO.	DC (V)
Q131	
E	1.7
C	0
B	1
Q161	
E	2
C	5.7
B	2.7
Q211	
E	3.7
C	8.8
B	4.4
Q232	
E	0
C	0
B	0.6
Q233	
E	3.3
C	8.8
B	4
Q251	
E	3
C	4.9
B	3.7
Q252	
E	2.4
C	4.9
B	3
Q281	
E	3
C	0
B	2.4
Q282	
E	2.3
C	4.3
B	3
Q283	
E	4.9
C	2.9
B	4.3
Q291	
E	3.1
C	0
B	2.5
Q292	
E	2.5
C	4.3
B	3.1
Q293	
E	4.9
C	3.1
B	4.3
Q352	
E	8.3
C	8.8
B	8.9
Q681	
E	2.1
C	0
B	-0.1
Q682	
E	0
C	2
B	-0.1
Q683	
E	0
C	0
B	-0.1
Q684	
E	0
C	2.1
B	-0.1
Q690	
E	8.8
C	0
B	8.3
Q701	
E	1.6
C	1.6
B	0.9
Q752	
E	5.9
C	5.8
B	0.2
Q851	
E	8.8
C	1.7
B	8.7



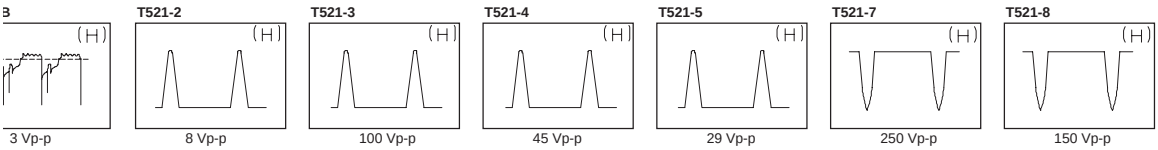
MAIN PWB CIRCUIT DIAGRAM (2/2) SHEET 2



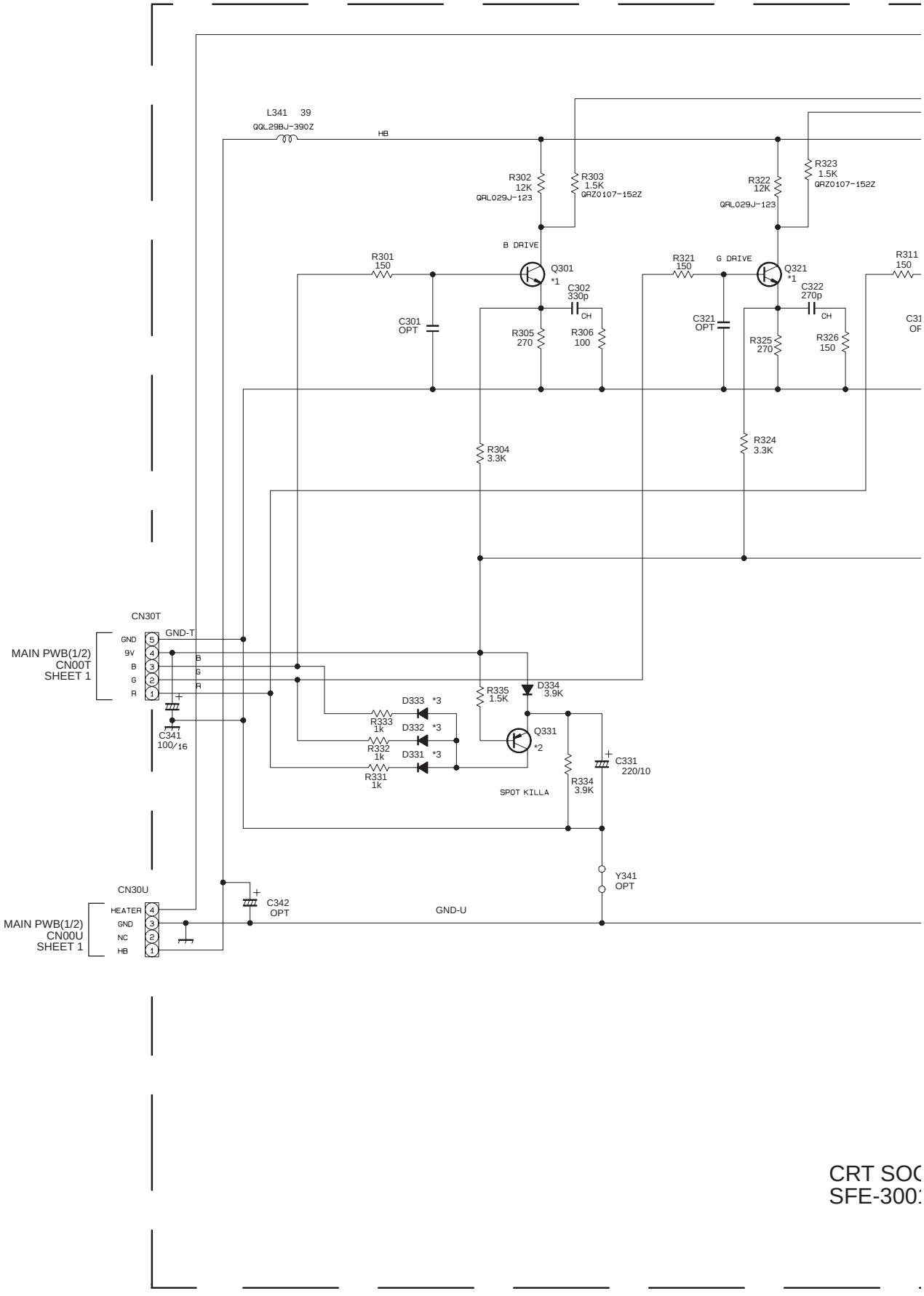




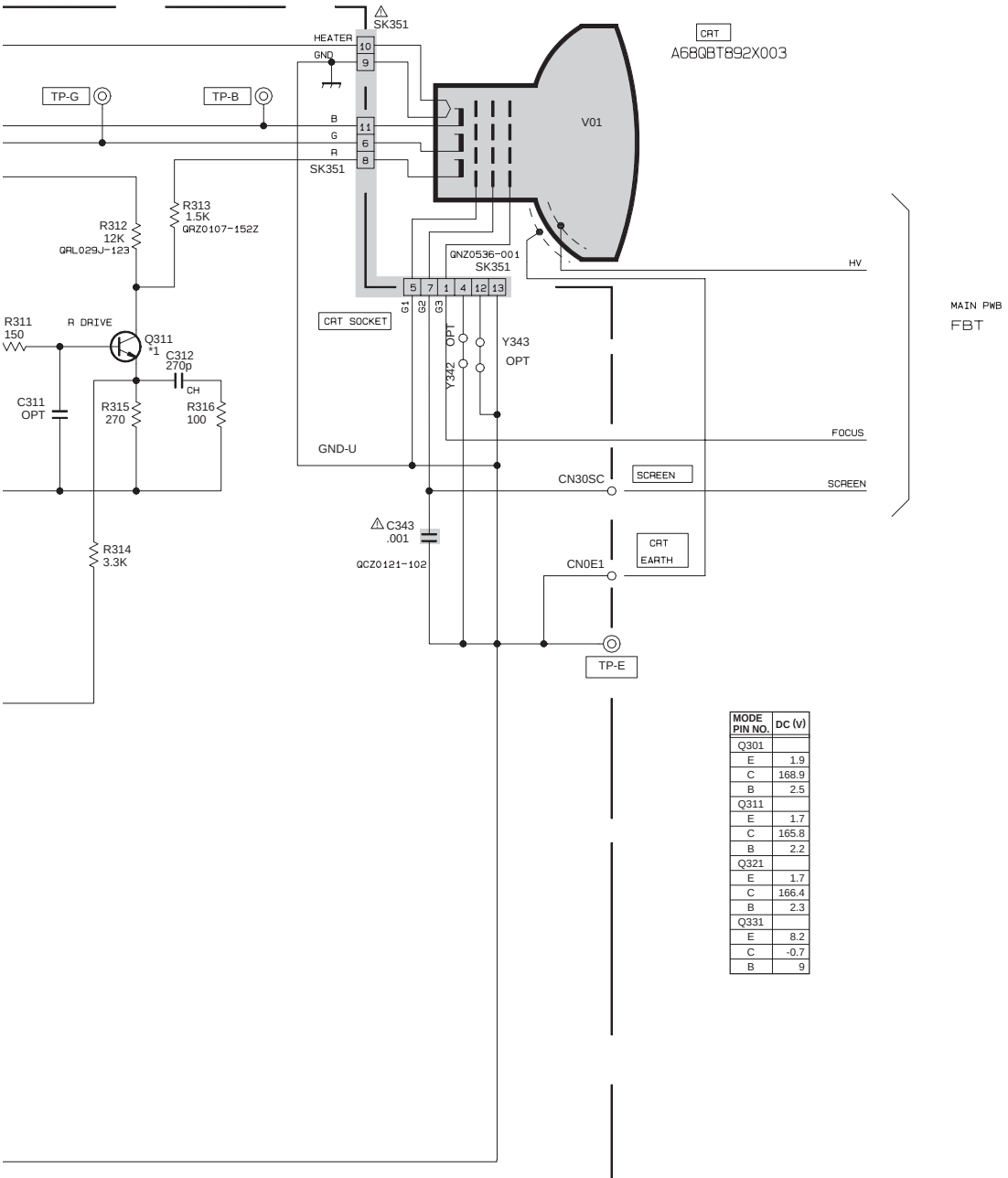
MODE PIN NO.	DC (V)
IC421	
1	4.3
2	27.6
3	2.1
4	0
5	15.8
6	28.6
7	4.4
IC901	
1	127
2	0.1
3	0
4	32.2
5	1.6
IC921	
1	11.9
2	0
3	8.8
IC922	
1	7.3
2	0
3	5
Q501	
E	0
C	64.1
B	0.3
Q521	
E	-0.1
C	134
B	0
Q541	
E	3.6
C	0.6
B	3
Q542	
E	3.6
C	0
B	2.9
Q543	
E	0
C	6.1
B	0.6
Q921	
E	0
C	0.7
B	1.3
Q922	
E	0
C	8.9
B	0
Q923	
E	9
C	0
B	8.9
Q924	
E	134
C	0
B	134



CRT SOCKET PWB CIRCUIT DIAGRAM SHEET 3



CRT SOC
SFE-300



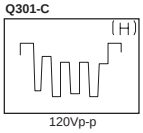
MODE PIN NO.	DC (V)
Q301	
E	1.9
C	168.9
B	2.5
Q311	
E	1.7
C	165.8
B	2.2
Q321	
E	1.7
C	166.4
B	2.3
Q331	
E	8.2
C	-0.7
B	9

OCKET PWB ASS'Y
001A-M2

NOTE

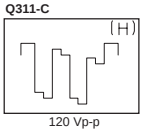
BW : BUS WIRE (0Ω)
OPT : NON MOUNT(OPEN)
*1 : 2SC4075/DE/YA11
*2 : 2SA933AS/QR/-T
*3 : 1SS133-T2

Q301-C



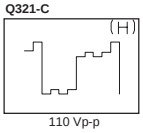
120Vp-p

Q311-C



120 Vp-p

Q321-C

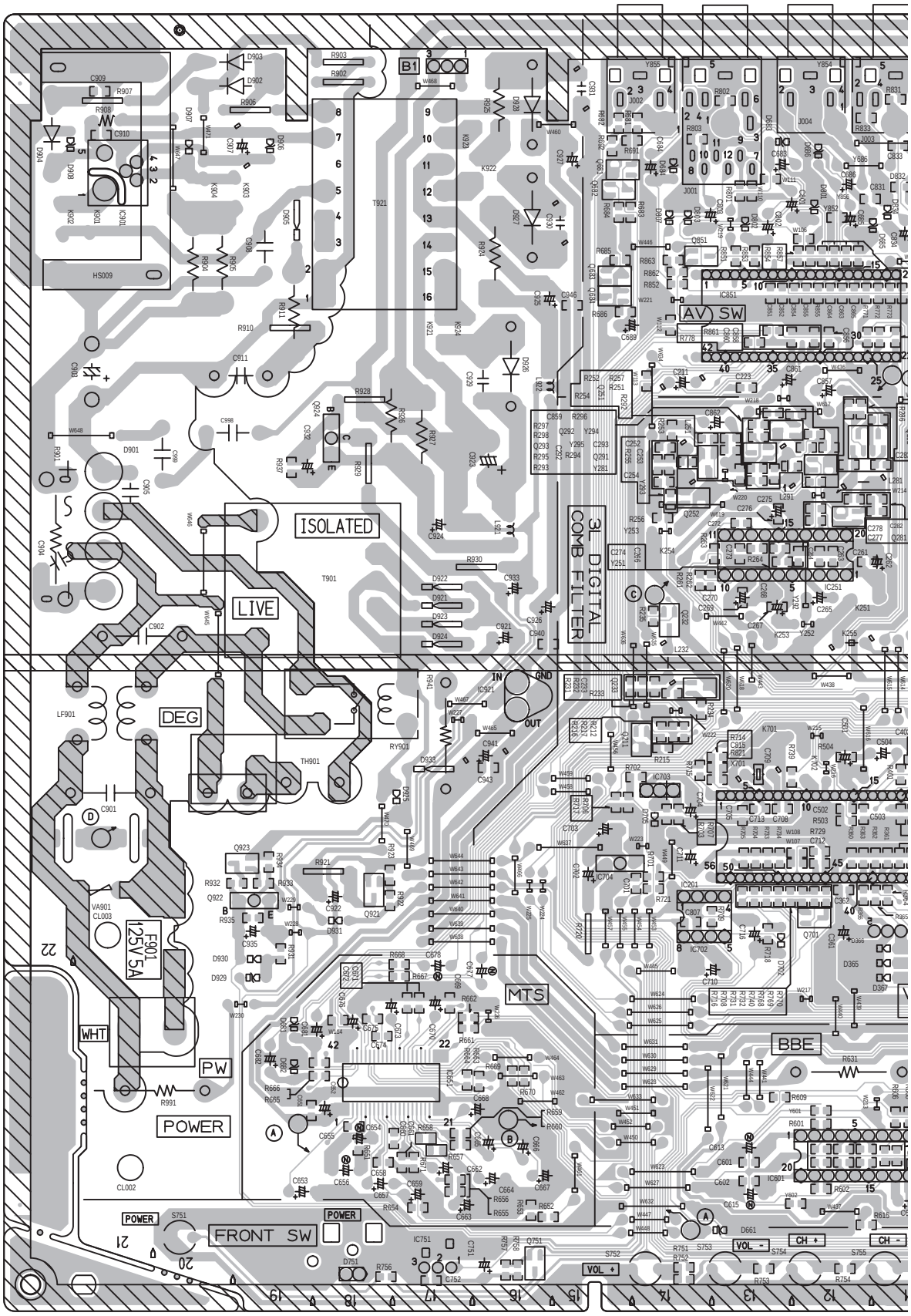


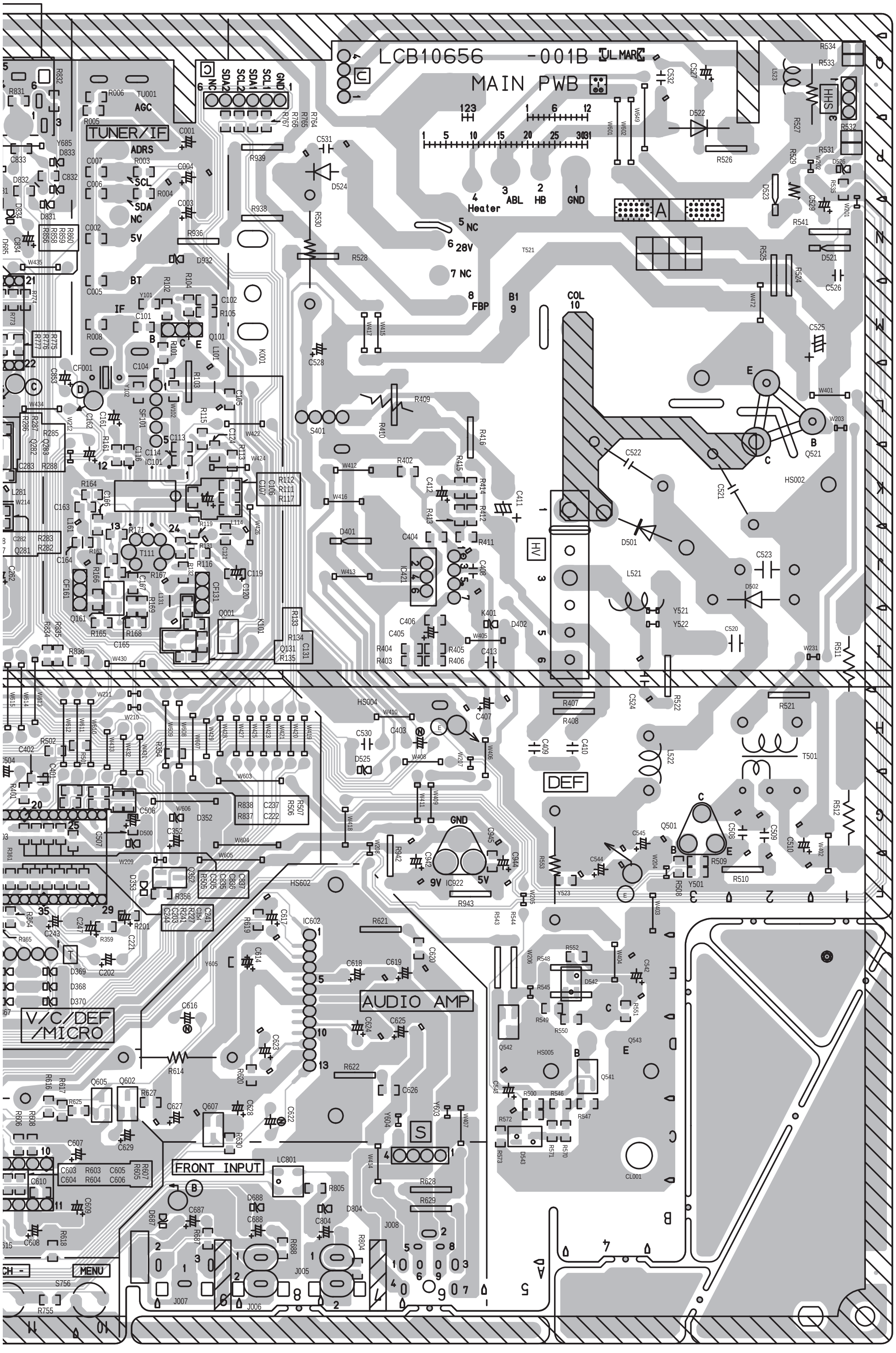
110 Vp-p

PATTERN DIAGRAMS

MAIN PWB PATTERN

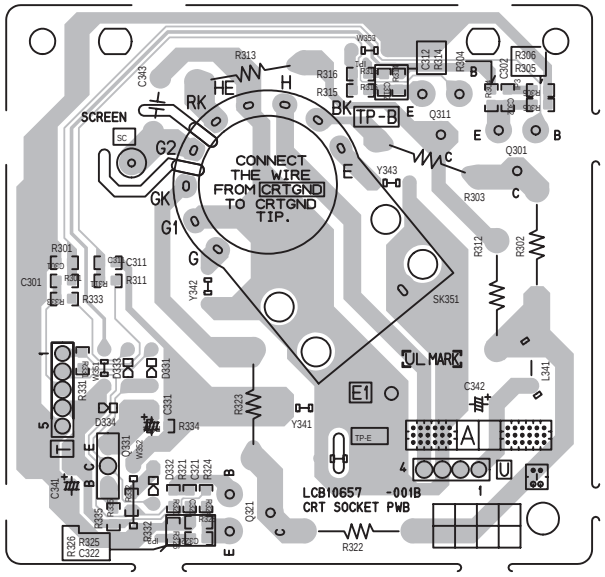
FRONT




LCB10656 -001B
MAIN PWB
TUNER/IF
V/C/DEF
/MICRO
AUDIO AMP
FRONT INPUT
DEF
HV
MENU

CRT SOCKET PWB PATTERN

TOP



JVC
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(No.YA050B)

Printed in Japan
VPT

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

CONTENTS

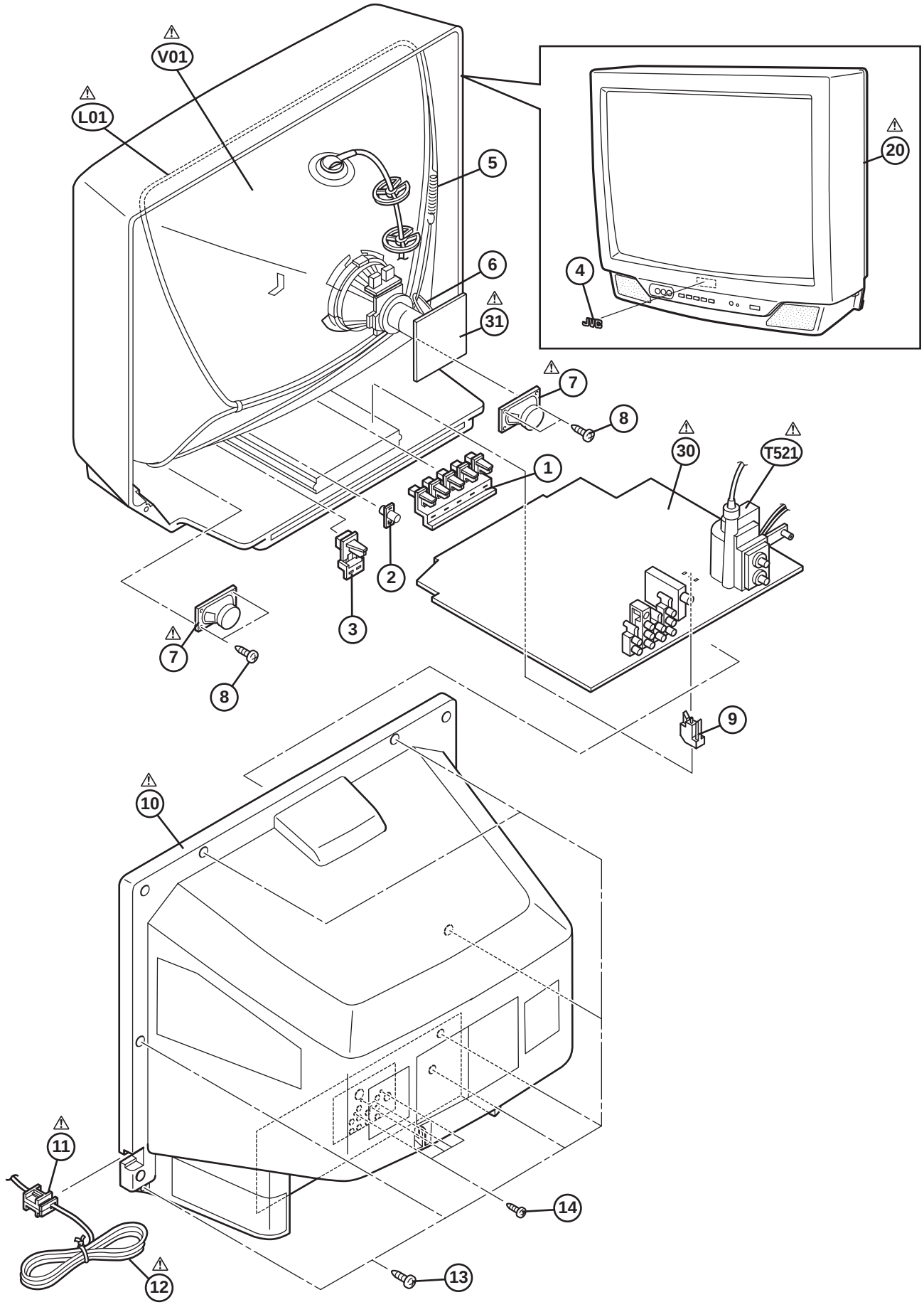
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	P.W.B ASS'Y No.
MAIN P.W.B	SFE-1039A-M2
CRT SOCKET P.W.B	SFE-3001A-M2
REMOTE CONTROL UNIT	RM-C203-1C

EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A68QBT892X003	ITC	Inc.DEF YOKE/PC MAGNET/WEDGE	
⚠	L01	QQW0120-001	DEG COIL		
⚠	T521	QQH0175-001	FB TRANSF		
	1	LC30271-001A-A	PUSH KNOB		
	2	LC30191-001C-A	REMOCON LENS		
	3	LC30376-001A-A	POWER KNOB		
	4	CM48006-006-C	JVC MARK		
	5	QZW0095-001	WIRE CLAMP		
	6	WJY0013-011A-E	BRAIDED ASSY		
⚠	7	QAS0054-001	SPEAKER	SP01/SP02(x2)	
	8	QYSBSB4012ZA	TAP SCREW	M4 x 12mm(x4)	
	9	CM48144-001-A	PB STOPPER		
⚠	10	LC10082-008A-A	REAR COVER		
⚠	11	LC20106-001D-A	POWER CORD CLAMP		
⚠	12	QMPD200-200-JC	POWER CORD(US/CA)	2m BLACK	
	13	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x7)	
	14	QYSBSB3010ZA	TAP SCREW	M3 x 10mm(x4)	
⚠	20	GQ10103-001A-A	FRONT CABINET		
⚠	30	SFE-1039A-M2	MAIN PWB		
⚠	31	SFE-3001A-M2	CRT SOCKET PWB		

EXPLODED VIEW



PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SFE-1039A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC101	M52342FP-X	IC		
IC201	TM8812CPDNG4N35	IC(MCU)		
IC251	TC90A49AP	IC		
IC421	LA78040N	IC		
⚠IC602	LA4446	IC		
IC651	UPC1851BGT-W	IC		
IC702	ATE04-27530SC	IC	(SERVICE)	
IC703	S-80840CNY-G-T	IC		
IC704	AN78L05-T	IC		
IC751	GP1UM281QKVF	IR DETECT UNIT		
IC851	TA1218AN	IC		
IC901	STR-G5624A/F8	IC		
IC921	L7809CP	IC		
IC922	L7805CP	IC		
Q001	UN2212-X	DIGI TRANSISTOR		
Q101	2SC5083/L-P/-T	TRANSISTOR		
Q131	2SB709A/QR/-X	TRANSISTOR		
Q161	2SD601A/QR/-X	TRANSISTOR		
Q211	2SD601A/QR/-X	TRANSISTOR		
Q232	2SD601A/QR/-X	TRANSISTOR		
Q233	2SD601A/QR/-X	TRANSISTOR		
Q251	2SD601A/QR/-X	TRANSISTOR		
Q252	2SD601A/QR/-X	TRANSISTOR		
Q281	2SB709A/QR/-X	TRANSISTOR		
Q282	2SD601A/QR/-X	TRANSISTOR		
Q283	2SB709A/QR/-X	TRANSISTOR		
Q291	2SB709A/QR/-X	TRANSISTOR		
Q292	2SD601A/QR/-X	TRANSISTOR		
Q293	2SB709A/QR/-X	TRANSISTOR		
Q352	2SD601A/QR/-X	TRANSISTOR		
Q501	2SC4212/Z1/	TRANSISTOR		
⚠Q521	2SD2634-YD	TRANSISTOR	H OUT	
Q541	2SB709A/QR/-X	TRANSISTOR		
Q542	2SB709A/QR/-X	TRANSISTOR		
Q543	2SD1267A/QP/	POW TRANSISTOR		
Q602	2SD601A/QR/-X	TRANSISTOR		
Q681	2SD601A/QR/-X	TRANSISTOR		
Q682	2SD601A/QR/-X	TRANSISTOR		
Q683	2SD601A/QR/-X	TRANSISTOR		
Q684	2SD601A/QR/-X	TRANSISTOR		
Q701	2SB709A/QR/-X	TRANSISTOR		
Q751	UN2112-X	DIGI TRANSISTOR		
Q851	2SB709A/QR/-X	TRANSISTOR		
Q921	2SD1383K/AB/-X	SI TRANSISTOR		
Q922	2SC2785/JH/-T	TRANSISTOR		
Q923	2SA1037AK/QR/-X	TRANSISTOR		
Q924	2SA1208/ST/Z1-T	TRANSISTOR		
D352	MTZJ9.1C-T2	Z DIODE		
D353	1SS133-T2	SI DIODE		
D365	1SS133-T2	SI DIODE		
D366	1SS133-T2	SI DIODE		
D367	1SS133-T2	SI DIODE		
D368	MTZJ5.1B-T2	Z DIODE		
D369	MTZJ5.1B-T2	Z DIODE		
D370	MTZJ5.1B-T2	Z DIODE		
D401	1SR35-400A-T2	SI DIODE		
D402	MTZJ75-T2	Z DIODE		
D500	MTZJ3.3A-T2	Z DIODE		
D501	RH3G-F1	SI DIODE		
D502	FR155GV-FL	SI DIODE		
D521	1SR35-400A-T2	SI DIODE		
D522	RH1S-T3	SI DIODE		
D523	1SR35-400A-T2	SI DIODE		
D524	FR105GT-T3	SI DIODE		
D525	MTZJ5.6A-T2	Z DIODE		
D526	MA4068N/Z1/-T2	Z DIODE		
D661	MTZJ9.1C-T2	Z DIODE		
D681	MTZJ9.1C-T2	Z DIODE		
D682	MTZJ9.1C-T2	Z DIODE		
D683	MTZJ9.1C-T2	Z DIODE		
D684	MTZJ9.1C-T2	Z DIODE		
D685	MTZJ9.1C-T2	Z DIODE		
D686	MTZJ9.1C-T2	Z DIODE		
D687	MTZJ9.1C-T2	Z DIODE		
D688	MTZJ9.1C-T2	Z DIODE		
D705	1SS133-T2	SI DIODE		
D751	LG22440	LED	POWER/ON TIMER	
D801	MTZJ9.1C-T2	Z DIODE		
D802	MTZJ9.1C-T2	Z DIODE		
D803	MTZJ9.1C-T2	Z DIODE		
D804	MTZJ9.1C-T2	Z DIODE		
D807	MTZJ9.1C-T2	Z DIODE		
D831	MTZJ9.1C-T2	Z DIODE		
D832	MTZJ9.1C-T2	Z DIODE		
D833	MTZJ9.1C-T2	Z DIODE		
D834	MTZJ9.1C-T2	Z DIODE		
D901	GSIB460-S1	BRIDGE DIODE		
D902	FR105GT-T3	SI DIODE		
D903	FR105GT-T3	SI DIODE		
D904	FR105GT-T3	SI DIODE		
D905	SARS01-T2	SI DIODE		
D907	MA700A-T2	SB DIODE		
D908	MTZJ15C-T2	Z DIODE		
D921	1SR35-400A-T2	SI DIODE		
D922	1SR35-400A-T2	SI DIODE		
D923	1SR35-400A-T2	SI DIODE		
D924	1SR35-400A-T2	SI DIODE		
D925	1SS133-T2	SI DIODE		
D926	RU3AM-LFC4	SI DIODE		
D927	HER202G-FL	SI DIODE		
D928	HER202G-FL	SI DIODE		
D929	MTZJ7.5A-T2	Z DIODE		
D930	1SS133-T2	SI DIODE		
D931	1SS133-T2	SI DIODE		
D932	MTZJ33B-T2	Z DIODE		
D933	1N4002G-T2	SI DIODE		
C001	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C003	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C004	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C005	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C105	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C106	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C113	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C114	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C116	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C119	NDC31HJ-681X	C CAPACITOR	680pF 50V J	
C120	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
C124	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C131	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C161	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C162	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C163	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C164	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C165	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C166	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C167	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C202	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C203	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C211	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C222	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C223	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C233	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C237	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C241	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C243	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C244	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C247	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C252	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C253	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C254	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C261	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C262	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C263	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C264	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C265	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
C266	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C267	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C268	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C269	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C270	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C272	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C273	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C274	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C275	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C276	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C277	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C278	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C283	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C293	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C352	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C354	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C361	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C362	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

⚠Ref No.	Part No.	Part Name	Description Local
C401	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J
C402	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C403	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
C404	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C405	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C406	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C407	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C408	QCS32HJ-100Z	C CAPACITOR	10pF 500V J
C409	QFLC2AK-104Z	M CAPACITOR	0.1uF 100V K
C410	QFLC2AK-104Z	M CAPACITOR	0.1uF 100V K
C411	QETM1VM-228	E CAPACITOR	2200uF 35V M
C412	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C501	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C503	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C504	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C505	NCB31AK-474X	C CAPACITOR	0.47uF 10V K
C506	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C508	QCB32HK-151Z	C CAPACITOR	150pF 500V K
C509	QCB32HK-331Z	C CAPACITOR	330pF 500V K
C510	QETN2EM-225Z	E CAPACITOR	2.2uF 250V M
C520	QFZ0197-564	MPP CAPACITOR	0.56uF 250V J
C521	QFZ0196-452	MPP CAPACITOR	4500pF 1.5kV H
C522	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H
C523	QFP32GJ-153	PP CAPACITOR	0.015uF 400V J
C524	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C525	QEZ0203-107	E CAPACITOR	100uF 160V M
C526	QFLC1HJ-823Z	M CAPACITOR	0.082uF 50V J
C527	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C528	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
C529	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C530	QFLC2AK-104Z	M CAPACITOR	0.1uF 100V K
C544	QEM61HK-475Z	E CAPACITOR	4.7uF 50V K
C545	QEM61HK-475Z	E CAPACITOR	4.7uF 50V K
C614	QETN1EM-477Z	E CAPACITOR	470uF 25V M
C616	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C617	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C618	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C619	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C620	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C622	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C623	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C624	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C625	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C626	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C627	QETN1EM-227Z	E CAPACITOR	220uF 25V M
C651	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C652	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C653	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C654	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C655	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C656	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C657	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C658	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C659	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M
C660	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C661	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C662	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C663	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C664	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C665	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C666	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C667	QETN1HM-336Z	E CAPACITOR	33uF 50V M
C668	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C669	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C670	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C671	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C672	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C673	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C674	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C675	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C676	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C677	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
C678	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
C681	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C682	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C683	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C684	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C685	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C686	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C687	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C688	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C689	QETN1CM-336Z	E CAPACITOR	33uF 16V M
C701	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C702	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C703	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C704	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C705	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C708	NDC31HJ-220X	C CAPACITOR	22pF 50V J
C709	NDC31HJ-220X	C CAPACITOR	22pF 50V J
C711	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C712	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C716	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C751	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C801	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C803	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C804	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C807	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C815	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C831	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C832	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C833	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C834	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C851	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C852	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C853	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C854	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C855	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C856	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C857	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C858	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C859	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C860	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C861	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C862	QETN1HM-106Z	E CAPACITOR	10uF 50V M
⚠C901	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
⚠C902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
C903	QEZ0376-477	E CAPACITOR	470uF
⚠C904	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
⚠C905	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
C907	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C908	QCZ0340-332	C CAPACITOR	3300pF 2kV K
C909	NCB31HK-182X	C CAPACITOR	1800pF 50V K
C910	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C911	QFP32GJ-103	PP CAPACITOR	0.01uF 400V J
C921	QEHR1EM-477Z	E CAPACITOR	470uF 25V M
C923	QEZ0203-107	E CAPACITOR	100uF 160V M
C924	QETN2CM-476Z	E CAPACITOR	47uF 160V M
C925	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C926	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C927	QETN1EM-477Z	E CAPACITOR	470uF 25V M
C929	QCZ0340-102	C CAPACITOR	1000pF 2kV K
C930	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C931	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C932	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M
C933	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C935	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C940	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C941	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C942	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C943	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C944	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C945	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
⚠C998	QCZ9074-103	C CAPACITOR	0.01uF AC250V M
⚠C999	QCZ9074-103	C CAPACITOR	0.01uF AC250V M
R003	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R006	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R008	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
R101	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R102	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R103	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R104	NRSA63J-180X	MG RESISTOR	18Ω 1/16W J
R105	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J
R111	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J
R112	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
R113	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R116	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R117	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R131	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R132	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R133	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R134	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R135	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R161	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R163	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R164	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R165	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R166	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R167	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R168	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R169	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R171	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R201	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R212	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R215	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R216	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R217	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R227	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R231	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R232	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R233	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R234	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R235	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R251	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R253	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R254	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R255	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R256	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R257	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R261	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R262	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R263	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R264	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R282	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R283	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R285	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R286	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R287	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R288	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R292	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R293	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R295	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R296	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R297	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R298	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R354	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R356	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R359	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R360	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R364	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R365	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R366	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R401	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R402	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R403	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R405	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R407	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R408	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R409	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J
R411	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R412	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R414	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R416	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R500	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R501	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R502	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R504	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R505	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R506	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R507	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R508	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R509	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R510	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J
R511	QRL029J-182	OMF RESISTOR	1.8kΩ 2W J
R512	QRL029J-182	OMF RESISTOR	1.8kΩ 2W J
R521	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R522	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R524	QRE121J-224Y	C RESISTOR	220kΩ 1/2W J
R525	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R526	QRK129J-150	UNF C RESISTOR	15Ω 1/2W J
R528	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J
R529	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J
R530	QRT039J-6R8	MF RESISTOR	6.8Ω 3W J
R531	NRVA02D-7151X	CMF RESISTOR	7.15kΩ 1/10W D
R533	NRVA02D-272X	CMF RESISTOR	2.7kΩ 1/10W D
R541	QRE121J-683Y	C RESISTOR	68kΩ 1/2W J
R543	QRE121J-122Y	C RESISTOR	1.2kΩ 1/2W J
R544	QRE121J-392Y	C RESISTOR	3.9kΩ 1/2W J
R545	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R546	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R547	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R548	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R553	QRL039J-390	OMF RESISTOR	39Ω 3W J
R614	QRL039J-100	OMF RESISTOR	10Ω 3W J
R615	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R616	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R617	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R618	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R619	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R620	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R621	QRE121J-4R7Y	C RESISTOR	4.7Ω 1/2W J
R622	QRE121J-4R7Y	C RESISTOR	4.7Ω 1/2W J
R625	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R627	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R631	QRX029J-3R3	MF RESISTOR	3.3Ω 2W J
R651	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R652	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R653	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R654	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R655	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R656	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R657	NRVA02D-152X	CMF RESISTOR	1.5kΩ 1/10W D
R658	NRVA02D-153X	CMF RESISTOR	15kΩ 1/10W D
R659	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R660	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R661	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R662	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R663	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R664	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R665	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R666	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R667	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R668	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R669	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R670	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R671	NRSA63J-335X	MG RESISTOR	3.3MΩ 1/16W J
R681	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R682	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R683	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R684	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R685	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R686	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R687	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R688	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R691	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R692	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R703	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R704	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R705	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R706	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R708	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R714	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R717	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R718	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R720	QRJ149J-1R0	UNF C RESISTOR	1Ω 1/4W J
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R729	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R732	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R733	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R734	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R739	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R753	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R754	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R755	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R756	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R757	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R758	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R764	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R765	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R766	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R767	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R768	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R769	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R770	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R771	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R772	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R773	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R774	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R775	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R776	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R778	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R801	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R802	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R803	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R805	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R821	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R831	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R832	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R833	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R834	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R835	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R836	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description	Local
R851	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R852	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R853	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R854	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R855	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R856	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R857	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R858	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R859	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R860	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R861	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R862	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R863	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R901	QRF074K-R47	UNF WW RESISTOR	0.47Ω 7W K	
R902	QRE121J-473Y	C RESISTOR	47kΩ 1/2W J	
R903	QRE121J-473Y	C RESISTOR	47kΩ 1/2W J	
R904	QRT029J-R22	MF RESISTOR	0.22Ω 2W J	
R905	QRT029J-R22	MF RESISTOR	0.22Ω 2W J	
R906	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J	
R907	QRE121J-472Y	C RESISTOR	4.7kΩ 1/2W J	
R908	QRK126J-681X	UNF C RESISTOR	680Ω 1/2W J	
R910	QRE121J-684Y	C RESISTOR	680kΩ 1/2W J	
R911	QRG01GJ-470	OMF RESISTOR	47Ω 1W J	
R922	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R923	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R924	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J	
R925	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J	
R926	QRT029J-1R2	MF RESISTOR	1.2Ω 2W J	
R927	QRT029J-1R2	MF RESISTOR	1.2Ω 2W J	
R928	QRE121J-272Y	C RESISTOR	2.7kΩ 1/2W J	
R929	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	
R930	QRE121J-473Y	C RESISTOR	47kΩ 1/2W J	
R932	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R933	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R934	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R935	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R936	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J	
R938	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J	
R939	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J	
R941	QRG029J-180	OMF RESISTOR	18Ω 2W J	
R942	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J	
R943	QRE121J-820Y	C RESISTOR	82Ω 1/2W J	
⚠R991	QRZ9041-275	C RESISTOR	2.7MΩ 1/2W K	
L101	QQL244K-R39Z	COIL	0.39uH K	
L131	QQL29BJ-220Z	P COIL	22uH J	
L161	QQL29BJ-220Z	P COIL	22uH J	
L232	QQL29BJ-560Z	PEAKING COIL	56uH J	
L251	QQL29BJ-4R7Z	PEAKING COIL	4.7uH J	
L281	QQL29BJ-150Z	PEAKING COIL	15uH J	
L291	QQL29BJ-150Z	PEAKING COIL	15uH J	
L521	QQR1027-005	LINEARITY COIL		
L522	QQLZ036-821	COIL	820uH K	
L523	QQLZ026-360	COIL	36uH ±7%	
L921	QQL26AK-470Z	CHOKE COIL	47uH K	
L922	QQL26AK-470Z	CHOKE COIL	47uH K	
T111	QQR0907-001	IFT		
T501	QQR1414-001	DRIVE TRANSF		
⚠T901	QQT0355-001	POWER TRANSF		
⚠T921	QQS0204-001	SW TRANSF		
CF001	QAX0349-001	C TRAP	47.25MHz	
CF131	QAX0639-001Z	C TRAP	4.500MHz	
CF161	QAX0642-001Z	C FILTER	4.500MHz	
CN00T	QJB003-054820-E	SIN ID C-B WIRE		
CN00U	QJB003-044024-E	SIN ID C-B WIRE		
CN0HV	QGZ5003C1-06	CONNECTOR	(1-6)	
⚠F901	QMF51N1-5R0-J5	FUSE	5A AC125V	
J001	QNZ0454-001	AV JACK	INPUT-1(S/V/L/R)	
J002	QNN0348-001	PIN JACK	AUDIO OUT	
J003	QNN0349-002	PIN JACK	INPUT-2	
J004	QNN0348-001	PIN JACK	INPUT-2(L/R)COMPONENT	
J005	QNN0706-001	PIN JACK	INPUT-3(V)	
J006	QNN0706-002	PIN JACK	INPUT-3(L/MONO)	
J007	QNN0707-003	PIN JACK	INPUT-3(R)	
K001	QQR0582-001Z	FERRITE BEADS		
K101	QQR0582-001Z	FERRITE BEADS		
K251	QQR0582-001Z	FERRITE BEADS		
K253	QQR0582-001Z	FERRITE BEADS		
K254	QQR0582-001Z	FERRITE BEADS		
K255	QQR0621-002Z	FERRITE BEADS		
K401	QQR0582-001Z	FERRITE BEADS		
K701	QQR0582-001Z	FERRITE BEADS		
K702	QQR0582-001Z	FERRITE BEADS		
K901	QQR0582-001Z	FERRITE BEADS		
K902	QQR0582-001Z	FERRITE BEADS		
K903	QQR0582-001Z	FERRITE BEADS		
K904	QQR0582-001Z	FERRITE BEADS		
K922	QQR0582-001Z	FERRITE BEADS		
K923	QQR0582-001Z	FERRITE BEADS		
K924	QQR0582-001Z	FERRITE BEADS		
LC801	QQR1653-001	C MODE CHOKE COIL		
⚠LF901	QQR0527-003	LINE FILTER		
RY901	QSK0085-001	RELAY		
S401	QSW1142-001	LEVER SWITCH	V.CENTER	
S751	QSW0619-003Z	TACT SWITCH	POWER	
S752	QSW0619-003Z	TACT SWITCH	VOL+	
S753	QSW0619-003Z	TACT SWITCH	VOL-	
S754	QSW0619-003Z	TACT SWITCH	CH+	
S755	QSW0619-003Z	TACT SWITCH	CH-	
S756	QSW0619-003Z	TACT SWITCH	MENU	
SF101	QAX0723-001	SAW FILTER		
TH901	QAD0129-3R0	POSISTOR	3Ω	
⚠TU001	QAU0353-002	TUNER		
⚠VA901	QAF0072-621	VARISTOR	620V	
X701	QAX0717-001Z	CRYSTAL	8.000MHz	

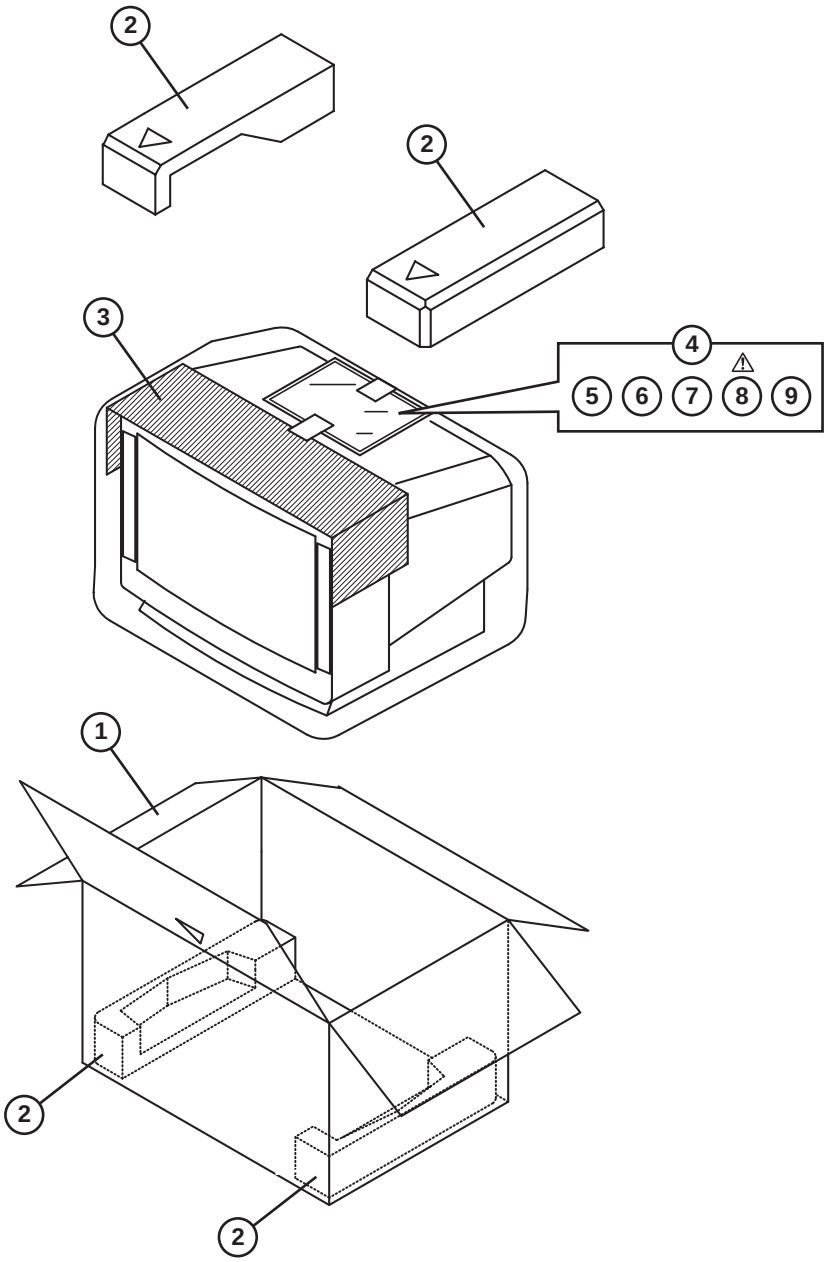
CRT SOCKET P.W. BOARD ASS'Y (SFE-3001A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
Q301	2SC4075/DE/YA11	POW TRANSISTOR		
Q311	2SC4075/DE/YA11	POW TRANSISTOR		
Q321	2SC4075/DE/YA11	POW TRANSISTOR		
Q331	2SA933AS/QR/-T	TRANSISTOR		
D331	1SS133-T2	SI DIODE		
D332	1SS133-T2	SI DIODE		
D333	1SS133-T2	SI DIODE		
D334	1SS133-T2	SI DIODE		
C302	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C312	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C322	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C331	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C341	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
⚠C343	QCZ0121-102	C CAPACITOR	1000pF 3KV Z	
R301	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R302	QRL029J-123	OMF RESISTOR	12kΩ 2W J	
R303	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
R304	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R305	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R306	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R311	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R312	QRL029J-123	OMF RESISTOR	12kΩ 2W J	
R313	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
R314	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R315	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R316	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R321	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R322	QRL029J-123	OMF RESISTOR	12kΩ 2W J	
R323	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
R324	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R325	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R326	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R331	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R332	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R333	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R334	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R335	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
L341	QQL29BJ-390Z	PEAKING COIL	39uH J	
CN3E1	QUB130-38A6AS-E	SIN TWIST WIRE		
⚠SK351	QNZ0536-001	CRT SOCKET		

REMOTE CONTROL UNIT PARTS LIST (RM-C203-1C)

⚠ Ref.No.	Part No.	Part Name	Description	Local
	LP40991-001B	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	CP11499-C15-A	PACKING CASE		
	2	LC10083-002B-A	CUSHION ASSY	(x4)	
	3	CP30055-001-A	TOP COVER		
	4	QPA02503505	POLY BAG	25cm x 35cm	
	5	RM-C203-1C	REMOCON		
	6	----------	LITHIUM BATTERY	R6P/AA	
	7	----------	WARRANTY CARD	BT-52006-2Q	
⚠	8	LCT1531-001A-A	INST BOOK	English/French	
	9	BT-51034-2Q	REGIST. CARD		